

BOARD MEETING DATE: May 3, 2013

AGENDA NO. 6

**PROPOSAL:** Issue RFP for On-Road Heavy-Duty Development, Integration, and Demonstration of Ultra-Low Emission Natural Gas Engines

**SYNOPSIS:** The development and commercialization of low emission, heavy-duty truck technologies remains a critical component for achieving the federal ambient air quality standards for the South Coast Air Basin. There is a need to develop a new generation of on-road heavy-duty engines that could potentially achieve an additional 90% reduction in NO<sub>x</sub> exhaust emissions. This proposed action is to issue an RFP to develop ultra-low emission on-road heavy-duty natural gas engines.

**COMMITTEE:** Technology, April 19, 2013, Recommended for Approval

**RECOMMENDED ACTION:**

Approve issuance of RFP #P2013-22 to solicit cost-shared proposals for the development, integration, and demonstration of ultra-low emission natural gas engines for on-road heavy-duty vehicles.

Barry R. Wallerstein, D.Env.  
Executive Officer

MMM:DS:JC

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**Background**

On-road heavy-duty diesel vehicles are currently one of the largest sources of NO<sub>x</sub> emissions, which are precursors to ozone formation, in the South Coast Air Basin. This source category is still projected to be one of the largest contributors to NO<sub>x</sub> emissions, even as the legacy fleet of older and higher polluting vehicles are retired from operation and replaced by the cleanest vehicles meeting the most stringent emission levels required by 2010 emissions standards. The 2012 AQMP showed that NO<sub>x</sub> reductions in excess of 60% will be needed from all source categories to meet future Federal ambient air quality standards for ozone. Engine manufacturers have made recent statements that significant emissions reductions beyond current standards are realistically achievable for heavy-duty natural gas engines. The development of an ultra-low emission natural

gas engine would significantly reduce emissions from this on-road heavy-duty source category and assist the region in meeting the Federal ambient air quality standards in the future.

### **Proposal**

This proposed action is to issue RFP #P2013-22 to solicit proposals for the development, integration, and demonstration of ultra-low emission natural gas engines for on-road heavy-duty vehicle applications.

The project is intended to develop natural gas engines for on-road heavy-duty applications that are expected to achieve NOx emission levels that are 90% lower than 2010 engine emission certification standards. Proponents will be required to develop prototype engines to validate their emission reduction concepts and perform substantial validation and durability testing to confirm that their design concept is robust and will be reliable once placed in commercial service. These engines will be tested on both the Federal Test Procedure for emissions certification as well as non-certification test cycles representative of the real-world use of the vehicle in vocations that are prevalent in the air basin. The program will ultimately conclude with the engines being integrated into on-road heavy-duty chassis and placed in commercial service to fully validate the performance and viability of the engines resulting from this proposed RFP.

The SCAQMD, CEC, San Joaquin Valley Air Pollution Control District (SJVAPCD) and Southern California Gas Company (SoCalGas) are expected to allocate up to \$9 million to this RFP with additional cost share funding to be provided from prospective contractors.

### **Outreach**

In accordance with SCAQMD's Procurement Policy and Procedure, a public notice advertising the RFP/RFQ and inviting bids will be published in the Los Angeles Times, the Orange County Register, the San Bernardino Sun, and the Riverside County Press Enterprises newspapers to leverage the most cost-effective method of outreach to the entire South Coast Basin.

Additionally, potential bidders may be notified utilizing SCAQMD's own electronic listing of certified minority vendors. Notice of the RFP/RFQ will be emailed to the Black and Latino Legislative Caucuses and various minority chambers of commerce and business associations, and placed on the Internet at SCAQMD's website (<http://www.aqmd.gov>) where it can be viewed by making menu selections "Inside SCAQMD"/ "Employment and Business Opportunities"/ "Business Opportunities" or by going directly to <http://www.aqmd.gov/rfp/index.html>. Information is also available on SCAQMD's bidder's 24-hour telephone message line (909) 396-2724.

**Benefits to SCAQMD**

This RFP will generate a list of qualified bidders to develop ultra-low emission natural gas engines. The development and use of ultra-low emission engines in on-road heavy-duty truck applications will assist the SCAQMD to attain its clean air goals. This proposed project is included in the *Technology Advancement Office 2013 Plan Update* under “Engine Systems.”

**Resource Impacts**

It is expected that the SCAQMD, CEC, SJVAPCD and SoCalGas will provide up to \$9 million for RFP #P2013-22 with additional cost share required from prospective contractors. Out of this estimated \$9 million in total funding for this RFP, SCAQMD’s cost shall not exceed \$2 million, which would be provided from the Clean Fuels Fund (31).

Sufficient funds are available from the Clean Fuels Fund (31), established as a special revenue fund resulting from the state-mandated Clean Fuels Program. The Clean Fuels Program, under Health and Safety Code Sections 40448.5 and 40512 and Vehicle Code Section 9250.11, establishes mechanisms to collect revenues from mobile sources to support projects to increase the utilization of clean fuels, including the development of the necessary advanced enabling technologies. Funds collected from motor vehicles are restricted, by statute, to be used for projects and program activities related to mobile sources that support the objectives of the Clean Fuels Program.

**Attachments**

RFP #P2013-22 - On-Road Heavy-Duty Development, Integration, and Demonstration of Ultra-Low Emission Natural Gas Engines



## **South Coast Air Quality Management District**

### **SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

#### **REQUEST FOR PROPOSALS**

#### **On-Road Heavy-Duty Development, Integration, and Demonstration of Ultra-Low Emission Natural Gas Engines**

**#P2013-22**

The South Coast Air Quality Management District (SCAQMD) requests proposals for the following purpose according to terms and conditions attached. In the preparation of this Request for Proposals (RFP) the words "Proposer," "Contractor," and "Consultant" are used interchangeably.

#### **PURPOSE**

The SCAQMD is seeking cost-shared proposals to develop, integrate, and demonstrate natural gas engines in a variety of heavy-duty vehicle applications. The purpose of the RFP is to provide financial assistance to Contractor Teams to develop production-intent or production near-zero nitrogen oxides (NO<sub>x</sub>) emission heavy-duty natural gas engines, integrate the engines into heavy-duty vehicles chassis, and evaluate the performance of the vehicles in a variety of heavy-duty vehicle applications in the South Coast Air Basin (SCAB) and San Joaquin Valley Air Basin (SJVAB). A typical Contractor Team will consist of an engine original equipment manufacturer (OEM), aftertreatment manufacturer, chassis integrator with production capability, and fleets with strong commitment to support the program.

The RFP emissions targets are 0.02 grams per brake horsepower-hr (g/bhp-hr) NO<sub>x</sub>, 0.01 g/bhp-hr particulate matter (PM), 0.14 g/bhp-hr hydrocarbon (HC), and 15.5 g/bhp-hr carbon monoxide (CO) or lower as determined by the heavy-duty engine Federal Test Procedure (FTP). Proposals that address methods to achieve 10 ppm or lower NH<sub>3</sub> emission will score higher, and similar those that address methods to achieve minimal or zero fuel economy penalties when compared to similar 2010 certified diesel engines, will score higher. To reach the low NO<sub>x</sub> emission target and keep the PM, HC, and CO at current or lower emissions levels, proponents may propose all or combinations of optimized combustion chamber technology, advanced fuel delivery system, air handling system, advanced electronic controls, and exhaust after-treatment technologies. Proponents will be required to build prototype heavy-duty natural gas engines and exhaust after-treatment technology, and to perform transient engine dynamometer tests of the prototype engines to assess fuel consumption, gaseous emissions, and particulate matter emissions. Production-intent or production engines with exhaust after-treatment technology will then be built based on the prototype engines and integrated into an on-road heavy-duty prototype vehicle chassis suitable for refuse, goods movement, drayage truck, transit, or school bus applications and further developed to ensure adequate transient performance and drivability. At least three production-intent or production vehicles will then be deployed and demonstrated in commercial services to evaluate performance, reliability, and emissions expectations. A

heavy-duty chassis dynamometer will be needed for prototype vehicle development and in-use emissions testing.

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Attachment A - Certifications and Representations

## **SECTION I: BACKGROUND/INFORMATION**

Heavy-duty diesel vehicles are a significant source of diesel PM and NOx emissions whose adverse health effects disproportionately target children, elderly, and sick individuals in the SCAB. Since 2000, the California Air Resources Board (CARB) has linked air pollution in California to high annual cases of premature deaths, asthma attacks and other lower respiratory symptoms, school truancy, and missed work days. In addition, the SCAQMD MATES-III Study results indicate that diesel emissions are a major contributor to air toxics, accounting for about 84% of the SCAB's cancer risk. Despite the last two decades of aggressive efforts to reduce air pollution, the SCAB continues to have some of the worst air quality in the U.S. based on the number of days the National Ambient Air Quality Standards for ozone are exceeded, and is still designated non-attainment for PM2.5 and extreme non-attainment for 8-hr ozone. Clearly, SCAQMD needs mass introduction of zero and near-zero emissions alternative-fueled and advanced technology vehicles into the Basin particularly for heavy-duty vehicles, to achieve significant progress toward its air quality goals.

Natural gas engine technology has shown significant reduction in greenhouse gas, NOx, and PM emissions, diesel odors, and petroleum consumption. Many of these engines are achieving lower NOx emission levels than the 2010 0.2 g/bhp-hr NOx standard. In addition, recent studies have shown that these engines are capable of further reducing NOx emission by more than 75% with minimum improvement to current engine and aftertreatment technologies. Because these improvements have only been demonstrated on a bench-scale basis, more work is needed to produce production-intent or production combustion systems and exhaust after-treatment technologies to reduce NOx emissions to 0.02 g/bhp-hr or lower with minimal, or zero, engine efficiency and fuel economy penalties when compared to similar 2010 U.S. Environmental Protection Agency (EPA) and CARB certified diesel engines.

The SCAQMD, SJVAPCD, CEC, and SoCalGas are collaborating to support the development, integration, and demonstration of production-intent or production on-road heavy-duty natural gas engines capable of achieving 0.02 g/bhp-hr or lower NOx emission in a variety of heavy-duty vehicle applications in the SCAB and SJVAB. To reach the low NOx emission target and maintain the PM, HC, and CO at or below current emissions standards, engine manufacturers may employ all or combinations of optimized combustion chamber technology, advanced fuel delivery system, air handling system, advanced electronic controls, and aftertreatment technologies.

The proposed RFP supports the implementation of advanced alternative fuel technology that could significantly reduce NOx emissions from on-road natural gas heavy-duty vehicles.

## **SECTION II: CONTACT PERSON:**

Questions regarding the content or intent of this RFP or on procedural matters should be addressed to:

Jeff Cox  
Air Quality Specialist  
Science and Technology Advancement  
SCAQMD  
21865 Copley Drive

### **SECTION III: SCHEDULE OF EVENTS**

Event	Date
Board Approval of RFP	May 3, 2013
Release RFP	May 3, 2013
Bidders Conference*	June 5, 2013
Proposal Due no later than 5 p.m. PST	July 24, 2013
Proposal Evaluations	August 14, 2013
Technology Committee	August 23, 2013
Recommendation to Board	September 6, 2013
Anticipated Contract Start	December 4, 2013
Anticipated Contract Completion	December 4, 2016

\*Participation in bidder's conference is optional. Such participation would assist in notifying potential bidders of any updates or amendments. Any questions from prospective bidders or interested parties should be directed, with reference to this RFP, to Jeff Cox, via fax at (909) 396-3252. Bidders planning to attend the bidder's conference should notify Jeff Cox by fax before the close of business day, June 4, 2013. The Bidders Conference will be held in Room CC2 at the SCAQMD Headquarters in Diamond Bar, California at 10:00 a.m. on Wednesday, June 5, 2013.

### **SECTION IV: PARTICIPATION IN THE PROCUREMENT PROCESS**

A. It is the policy of the South Coast Air Quality Management District to ensure that all businesses including minority business enterprises, women business enterprises, disabled veteran business enterprises and small businesses have a fair and equitable opportunity to compete for and participate in SCAQMD contracts.

B. Definitions:

The definition of minority, women or disadvantaged business enterprises set forth below is included for purposes of determining compliance with the affirmative steps requirement described in Paragraph G below on procurements funded in whole or in part with federal grant funds which involve the use of subcontractors. The definition provided for disabled veteran business enterprise, local business, small business enterprise, low-emission vehicle business and off-peak hours delivery business are provided for purposes of determining eligibility for point or cost considerations in the evaluation process.

1. "Women business enterprise" (WBE) as used in this policy means a business enterprise that meets all of the following criteria:
  - a. a business that is at least 51 percent owned by one or more women, or in the case of any business whose stock is publicly held, at least 51 percent of the stock is owned by one or more women.
  - b. a business whose management and daily business operations are controlled by one or more women.

- c. a business which is a sole proprietorship, corporation, or partnership with its primary headquarters office located in the United States, which is not a branch or subsidiary of a foreign corporation, foreign firm, or other foreign-based business.
2. "Disabled veteran" as used in this policy is a United States military, naval, or air service veteran with at least 10 percent service-connected disability who is a resident of California.
3. "Disabled veteran business enterprise" (DVBE) as used in this policy means a business enterprise that meets all of the following criteria:
  - a. is a sole proprietorship or partnership of which at least 51 percent is owned by one or more disabled veterans or, in the case of a publicly owned business, at least 51 percent of its stock is owned by one or more disabled veterans; a subsidiary which is wholly owned by a parent corporation but only if at least 51 percent of the voting stock of the parent corporation is owned by one or more disabled veterans; or a joint venture in which at least 51 percent of the joint venture's management and control and earnings are held by one or more disabled veterans.
  - b. the management and control of the daily business operations are by one or more disabled veterans. The disabled veterans who exercise management and control are not required to be the same disabled veterans as the owners of the business.
  - c. is a sole proprietorship, corporation, or partnership with its primary headquarters office located in the United States, which is not a branch or subsidiary of a foreign corporation, firm, or other foreign-based business.
4. "Local business" as used in this policy means a company that has an ongoing business within the South Coast SCAQMD at the time of bid or proposal submittal and performs 90% of the work related to the contract within the South Coast AQMD and satisfies the requirements of subparagraph H below.
5. "Small business" as used in this policy means a business that meets the following criteria:
  - a. 1) an independently owned and operated business; 2) not dominant in its field of operation; 3) together with affiliates is either:
    - A service, construction, or non-manufacturer with 100 or fewer employees, and average annual gross receipts of ten million dollars (\$10,000,000) or less over the previous three years, or
    - A manufacturer with 100 or fewer employees.
  - b. Manufacturer means a business that is both of the following:



- 1) Primarily engaged in the chemical or mechanical transformation of raw materials or processed substances into new products.
  - 2) Classified between Codes 311000 and 339000, inclusive, of the North American Industrial Classification System (NAICS) Manual published by the United States Office of Management and Budget, 2007 edition.
6. "Joint ventures" as defined in this policy pertaining to certification means that one party to the joint venture is a DVBE or small business and owns at least 51 percent of the joint venture.
  7. "Low-Emission Vehicle Business" as used in this policy means a company or contractor that uses low-emission vehicles in conducting deliveries to the SCAQMD. Low-emission vehicles include vehicles powered by electric, compressed natural gas (CNG), liquefied natural gas (LNG), liquefied petroleum gas (LPG), ethanol, methanol, hydrogen and diesel retrofitted with particulate matter (PM) traps.
  8. "Off-Peak Hours Delivery Business" as used in this policy means a company or contractor that commits to conducting deliveries to the SCAQMD during off-peak traffic hours defined as between 10:00 a.m. and 3:00 p.m.
  9. "Benefits Incentive Business" as used in this policy means a company or contractor that provides janitorial, security guard or landscaping services to the SCAQMD and commits to providing employee health benefits (as defined below in Section VIII.D.2.d) for full time workers with affordable deductible and co-payment terms.
  10. "Minority Business Enterprise" as used in this policy means a business that is at least 51 percent owned by one or more minority person(s), or in the case of any business whose stock is publicly held, at least 51 percent of the stock is owned by one or more or minority persons.
    - a. a business whose management and daily business operations are controlled by one or more minority persons.
    - b. a business which is a sole proprietorship, corporation, or partnership with its primary headquarters office located in the United States, which is not a branch or subsidiary of a foreign corporation, foreign firm, or other foreign-based business.
    - c. "Minority person" for purposes of this policy, means a Black American, Hispanic American, Native-American (including American Indian, Eskimo, Aleut, and Native Hawaiian), Asian-Indian (including a person whose origins are from India, Pakistan, and Bangladesh), Asian-Pacific-American (including a person whose origins are from Japan, China, the Philippines, Vietnam, Korea, Samoa, Guam, the United States Trust Territories of the Pacific, Northern Marianas, Laos, Cambodia, and Taiwan).
  11. "Disadvantaged Business Enterprise" as used in this policy means a business that is an entity owned and/or controlled by a socially and economically disadvantaged individual(s) as described by Title X of the Clean Air Act Amendments of 1990 (42 U.S.C. 7601 note) (10% statute), and Public Law 102-389 (42 U.S.C. 4370d)(8% statute), respectively;
    - a Small Business Enterprise (SBE);

a Small Business in a Rural Area (SBRA);  
a Labor Surplus Area Firm (LSAF); or  
a Historically Underutilized Business (HUB) Zone Small Business Concern, or a concern under a successor program.

- C. Under Request for Quotations (RFQ), DVBEs, DVBE business joint ventures, small businesses, and small business joint ventures shall be granted a preference in an amount equal to 5% of the lowest cost responsive bid. Low-Emission Vehicle Businesses shall be granted a preference in an amount equal to 5 percent of the lowest cost responsive bid. Off-Peak Hours Delivery Businesses shall be granted a preference in an amount equal to 2 percent of the lowest cost responsive bid. Local businesses (if the procurement is not funded in whole or in part by federal grant funds) shall be granted a preference in an amount equal to 2% of the lowest cost responsive bid.
- D. Under Request for Proposals, DVBEs, DVBE joint ventures, small businesses, and small business joint ventures shall be awarded ten (10) points in the evaluation process. A non-DVBE or large business shall receive seven (7) points for subcontracting at least twenty-five (25%) of the total contract value to a DVBE and/or small business. Low-Emission Vehicle Businesses shall be awarded five (5) points in the evaluation process. On procurements which are not funded in whole or in part by federal grant funds local businesses shall receive five (5) points. Off-Peak Hours Delivery Businesses shall be awarded two (2) points in the evaluation process.
- E. SCAQMD will ensure that discrimination in the award and performance of contracts does not occur on the basis of race, color, sex, national origin, marital status, sexual preference, creed, ancestry, medical condition, or retaliation for having filed a discrimination complaint in the performance of SCAQMD contractual obligations.
- F. SCAQMD requires Contractor to be in compliance with all state and federal laws and regulations with respect to its employees throughout the term of any awarded contract, including state minimum wage laws and OSHA requirements.
- G. When contracts are funded in whole or in part by federal funds, and if subcontracts are to be let, the Contractor must comply with the following, evidencing a good faith effort to solicit disadvantaged businesses. Contractor shall submit a certification signed by an authorized official affirming its status as a MBE or WBE, as applicable, at the time of contract execution. The SCAQMD reserves the right to request documentation demonstrating compliance with the following good faith efforts prior to contract execution.
1. Ensure Disadvantaged Business Enterprises (DBEs) are made aware of contracting opportunities to the fullest extent practicable through outreach and recruitment activities. For Indian Tribal, State and Local Government recipients, this will include placing DBEs on solicitation lists and soliciting them whenever they are potential sources.
  2. Make information on forthcoming opportunities available to DBEs and arrange time frames for contracts and establish delivery schedules, where the requirements permit, in a way that encourages and facilitates participation by DBEs in the competitive process. This includes, whenever possible, posting solicitations for bids or proposals for a minimum of 30 calendar days before the bid or proposal closing date.

3. Consider in the contracting process whether firms competing for large contracts could subcontract with DBEs. For Indian Tribal, State and Local Government recipients, this will include dividing total requirements when economically feasible into smaller tasks or quantities to permit maximum participation by DBEs in the competitive process.
  4. Encourage contracting with a consortium of DBEs when a contract is too large for one of these firms to handle individually.
  5. Using the services and assistance of the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.
  6. If the prime contractor awards subcontracts, require the prime contractor to take the above steps.
- H. To the extent that any conflict exists between this policy and any requirements imposed by federal and state law relating to participation in a contract by a certified MBE/WBE/DVBE as a condition of receipt of federal or state funds, the federal or state requirements shall prevail.
- I. When contracts are not funded in whole or in part by federal grant funds, a local business preference will be awarded. For such contracts that involve the purchase of commercial off-the-shelf products, local business preference will be given to suppliers or distributors of commercial off-the-shelf products who maintain an ongoing business within the geographical boundaries of the SCAQMD. However, if the subject matter of the RFP or RFQ calls for the fabrication or manufacture of custom products, only companies performing 90% of the manufacturing or fabrication effort within the geographical boundaries of the SCAQMD shall be entitled to the local business preference.
- J. In compliance with federal fair share requirements set forth in 40 CFR 35.6580, the SCAQMD shall establish a fair share goal annually for expenditures covered by its procurement policy.

## **SECTION V: STATEMENT OF WORK/SCHEDULE OF DELIVERABLES**

### **A. Statement of Work**

The purpose of the RFP is to seek cost-shared proposals to develop, integrate, and demonstrate natural gas engines for on-road heavy-duty vehicle applications. A Contractor Team must include experts in developing, emissions testing, and commercializing of alternative fuel technologies, natural gas heavy-duty vehicle engines, and aftertreatment technologies. A typical Contractor Team will consist of an engine OEM, aftertreatment manufacturer, chassis integrator with production capability, and fleets with strong commitment to support the program. Proposed projects will develop production-intent or production near-zero NOx emission heavy-duty natural gas engines, integrate the engines into heavy-duty vehicles chassis, and evaluate the performance of the vehicles in a variety of heavy-duty vehicle applications in SCAB and SJVAB.

The RFP emissions targets are 0.02 g/bhp-hr NO<sub>x</sub>, 0.01 g/bhp-hr PM, 0.14 g/bhp-hr HC, and 15.5 g/bhp-hr CO or lower, as determined by the heavy-duty engine FTP. Proposals that address methods to achieve 10 ppm or lower NH<sub>3</sub> emission will score higher, and similarly those that address methods to achieve minimal or zero fuel economy penalties when compared to similar 2010 certified diesel engines, will score higher.

Proponents will be required to build prototype natural gas engines and exhaust after-treatment technology and to perform transient dynamometer tests of the prototype engines to assess fuel consumption, gaseous emissions, and particulate matter emissions. Production-intent or production engines with exhaust after-treatment technology will then be built based on the prototype engines and integrated into an on-road heavy-duty vehicle chassis suitable for refuse, goods movement, drayage truck, transit, or school bus applications and further developed to ensure adequate transient performance and drivability. At least three production-intent or production vehicles will then be built based on prototype vehicles and demonstrated in commercial services to evaluate performance, reliability, and emissions expectations. A heavy-duty chassis dynamometer will be needed for prototype vehicle development and in-use emissions testing.

This RFP is divided into four areas of interest including fuel specification, engine development, chassis integration, and on-road demonstration. Each proposal shall address concisely the information requested in each area of interest (Tasks and sub-Tasks) in the format specified in Section VII - Proposal Submittal Requirements. Information provided shall be specific enough for evaluation and scoring purposes, and for inclusion into a binding contract. Successful bidders are expected to provide complete details of work proposed for this project.

Prospective prime contractor will be responsible for coordinating all aspects of this project including, obtaining regulatory permits, engine development, scheduling and coordinating engine integration into vehicle chassis and emissions testing, on-road vehicle demonstration, fuel, control devices and hardware procurement, data analysis, and reports.

### **Task 1 – Fuel Specification**

This task will require that samples of natural gas fuel be collected and analyzed to demonstrate that the fuel meets specifications for natural gas engine certification. Contractor shall:

- 1.1 Coordinate, conduct, or subcontract the chemical analysis of a sample of natural gas fuel to be used for emissions testing. Samples of the natural gas used for engine testing on the dynamometer shall be collected twice a week. This analysis shall, at a minimum, include water content, BTU value, percent methane, ethane, propane, butane, CO, carbon dioxide (CO<sub>2</sub>), hydrogen, oxygen, nitrogen, C<sub>3</sub><sup>+</sup>, and C<sub>6</sub><sup>+</sup>, contaminants, and Wobbe index.

### **Task 2 – Development of Prototype Heavy-Duty Natural Gas Engine**

The objective of this task is for the Contractor to develop production-intent or production natural gas heavy-duty engines appropriate for on-road heavy-duty vehicle applications such

as buses, refuse, goods movement, and drayage trucks. This task requires a work plan, which must clearly identify and describe all engine and exhaust after-treatment development activities, including design and feasibility analysis, prototype and production-intent or production engine development, emissions testing, certification, and commercialization. The production-intent or production engines and associated exhaust after-treatment technologies must be commercially-viable and capable of:

- Achieving emissions targets of 0.02 g/bhp-hr NO<sub>x</sub>, 0.01 g/bhp-hr PM, 0.14 g/bhp-hr HC, and 15.5 g/bhp-hr CO or lower as determined by the heavy-duty engine FTP;
- Keeping exhaust NH<sub>3</sub> emissions as low as achievable. Proposals that address methods to maintain NH<sub>3</sub> emission at 10 ppm or lower will score higher;
- Being thermally and fuel efficient. Proposals that address methods to achieve minimal, or zero, fuel economy penalties relative to 2010 EPA and CARB certified diesel engines in similar duty cycle will score higher; and
- Being certified by the U.S. EPA and CARB.

To achieve these goals, Contractor shall:

2.1. Develop a detailed work-plan for the design, analysis, and development of proposed natural gas engine and after-treatment technologies. Specifically, the work-plan shall include, at a minimum,

2.1.1 Specifications and conceptual design strategy of the proposed heavy-duty natural gas engine and associated exhaust after-treatment technologies suitable for heavy-duty vehicle chassis and powertrain strategies in refuse, goods movement, drayage, and transit and school buses' market fleets.

2.1.2 A detailed feasibility and risk analysis of the design strategy in Task 2.1.1 addressing, at a minimum, the development strategies for:

- i. Engine mechanical components including base engine components, power cylinder components (pistons, rings, bores, liners, etc), intake/exhaust manifolds, cylinder heads, turbo machinery, fuel system components, exhaust gas recirculation subsystem, etc.
- ii. Engine control system including electronic, hardware, and software controls, sensors, valves, actuators, ignition system, on-board diagnostics and the interface with various mechanical engine systems, aftertreatment technology, vehicle electronics and any application specific interface requirements or control system performance features.
- iii. Exhaust after-treatment technology and associated subsystems components.
- iv. Engine mechanical components and vehicle interface and packaging requirements.
- v. Emissions certification to ensure that the proposed heavy-duty natural gas engine and associated exhaust after-treatment technology are thermally and fuel efficient, and certified by the U.S. EPA and CARB to meet the emissions targets of 0.02 g/bhp-hr NO<sub>x</sub>, 0.01 g/bhp-hr PM, 0.14 g/bhp-hr HC, and 15.5 g/bhp-hr CO or lower as determined by the heavy-duty engine FTP while keeping exhaust NH<sub>3</sub> emissions as low as achievable.

- 2.2. Commission specific conceptual testing, analysis, or simulation as required based upon the results of Task 2.1.2 to mitigate design risks and to identify potential issues early in the development process.
- 2.3. Conduct detailed design of the engine and associated exhaust after-treatment technology, update product specifications, as required as design details are solidified, and build a minimum of one (1) prototype engine and exhaust after-treatment technology for initial laboratory testing and evaluation.
- 2.4. Establish and continuously update a product validation matrix that will identify all critical product specifications and document the status of the validation of the specifications.
- 2.5. As required, implement modifications and refinements to the engine, engine subsystem and exhaust after-treatment technology to meet the product specifications. In cases where product specifications must be updated during the development process, the Contractor shall identify the changes, evaluate the impact of the change, and review them with SCAQMD Project Manager for approval before proceeding.
- 2.6. Upon completion of the detailed design and the initial prototype engine and associated exhaust after-treatment system evaluation,
  - 2.6.1 Build a minimum of one (1) production-intent or production engine and exhaust after-treatment technology for final performance and emissions validation (total quantity shall be defined by the Contractor based upon their own internal product validation requirements).
  - 2.6.2 Perform transient dynamometer tests per the EPA heavy-duty on-highway FTP duty cycle to determine BSFC and HC, NO<sub>x</sub>, CO, PM, NH<sub>3</sub>, N<sub>2</sub>O, NO<sub>2</sub>, CO<sub>2</sub>, and ultrafine emissions from the production-intent or production engine both pre- and post-exhaust aftertreatment. The testing shall be conducted using natural gas that is laboratory tested to comply with CCR Title 13 Section 2292.5.
  - 2.6.3 Utilize their internal product development and validation procedures to establishing minimum quantities and specific validation requirements, but at a minimum, Contractor must perform a full validation of the product specifications and document the results in the compliance matrix. Contractor is encouraged to conduct an initial engine durability testing program for a minimum of 250 hours, or as defined by the Contractor and approved by the SCAQMD Project Manager.
- 2.7. Make a production or production-intent engine available for independent dynamometer emissions and performance testing during this project, as directed by SCAQMD Project Manager. In addition, Contractor shall provide a complete engines system and any required appurtenance necessary to conduct the testing and arrange for on-site engineering support to facilitate the testing.
- 2.8. Submit to SCAQMD Project Manager a report identifying proposed path towards eventual emissions certification of the engine and exhaust after-treatment technology and commercialization of the product. This report shall include specific high-level activities and proposed timeline for the commercialization of the engine.

### **Task 3 – Engine Vehicle Chassis Integration**

The objective of this task is for the Contractor to integrate the production-intent or production engines and exhaust after-treatment technology built in Task 2.6 into commercially-viable on-road heavy-duty chassis and vehicles. This task requires a work plan identifying specific integration path to deliver complete production vehicles to the marketplace, including vehicle conceptual design, feasibility and risk analysis of vehicle design, prototype and production vehicle assemblage and validation, and commercialization. Contractor shall:

- 3.1 Develop a detailed work-plan for the design, feasibility and risk analysis, assemblage, and validation of prototype and production vehicle for heavy-duty vehicle applications. Specifically, the work-plan shall include, at a minimum,
  - 3.1.1 Vehicle specifications and conceptual design strategy suitable for heavy-duty vehicle chassis and powertrain strategies in refuse, goods movement, drayage, transit and school bus market fleets.
  - 3.1.2 A detailed feasibility and risk analysis of the design strategy in Task 3.1.1 addressing, at a minimum, the integration strategies for:
    - i. Mechanical components including engine mounting requirement, transmission interface, driveline requirements, cooling and air interface, cooling system requirements, fan drive requirements, air conditioning compressor interface, axle ratio, transmission ratios, and other mechanical systems.
    - ii. Fuel system including fuel storage strategy (CNG/LNG), storage capacity requirements, storage tank installation requirements (mounting, crash protection and shielding, weight accommodation, National Fire Protection Association and Federal Motor Vehicle Safety Standard applicability), fuel control, and other fuel related systems.
    - iii. Electrical systems including vehicle communication protocols, on-board diagnostics requirements, diagnostic connector locations, engine and control system power/grounding, Electromagnetic Interference/Electromagnetic Compatibility, wiring interface requirements and design, electrical component installation, fuel level display, electronic foot pedal, remote throttle, Anti-lock Braking System or traction control interface, charging system, exhaust after-treatment system control and diagnostics.
    - iv. Exhaust after-treatment and associated sub-system requirements, diesel exhaust fluid freeze protection if required, heat protection, piping material requirements, packaging and mounting, etc
- 3.2 Conduct detailed design of the vehicle to integrate the production-intent or production engines and exhaust after-treatment systems built in Task 2.6, update product specifications, as required and as design details are solidified, and build a minimum of one (1) prototype vehicle for initial testing and evaluation.
- 3.3 Establish and continuously update a product validation matrix that will identify all critical product specifications and document the status of the validation of the specifications.

- 3.4 As required, implement modifications and refinements to the vehicle integration to meet the product specifications and comply with engine and exhaust after-treatment technology manufacturers' requirements and other design requirements including codes and standards. In cases where product specifications must be updated during the integration process, the Contractor shall identify the changes, evaluate the impact of the change, and review them with SCAQMD Project Manager for approval before proceeding.
- 3.5 Upon completion of the detailed design and the initial prototype vehicle evaluation,
- 3.5.1 Build a minimum of one (1) production-intent or production vehicle for final performance and emissions validation (total quantity shall be defined by the Contractor based upon the Contractor's internal product validation requirements).
- 3.5.2 Utilize their internal product development and validation procedures to establishing minimum quantities and specific validation requirements, but at a minimum, Contractor must perform a full validation of the product specifications and document the results in the compliance matrix. Contractor is encouraged to conduct an initial vehicle emissions tests to confirm performance and emissions expectations.
- 3.6 Make a production or production-intent vehicle available for independent chassis dynamometer emissions and performance testing during this project, as directed by SCAQMD Project Manager. In addition, Contractor shall provide a complete vehicle system and any required appurtenance necessary to conduct the testing and arrange for on-site engineering support to facilitate the testing
- 3.7 Submit to SCAQMD Project Manager a report identifying proposed path towards commercialization of the product. This report shall include specific high-level activities and proposed timeline for the commercialization of the vehicle.

#### **Task 4 – Vehicle Demonstration Plan**

The objective of this task is for the Contractor to demonstrate the production-intent or production vehicles built in Task 3 in SCAB and SJVAB. This task requires a series of chassis dynamometer tests and on-road tests to ensure that the production-intent or production vehicles are drivable, safe, and meet performance and emissions expectations. The Contractor shall:

- 4.1 Develop an on-road vehicle demonstration plan in collaboration with a SCAQMD-approved independent chassis testing laboratory to accomplish the objectives of this task. The plan, at a minimum, shall address the following work elements, but may include other activities as well:
- 4.1.1 Establish duration of the demonstration project and fleet selection criteria. The duration of the project shall not be less than six months, and the selection criteria must include tools to assess fleets':
- i Capability to support the demonstration project
  - ii Access to fueling, trained technicians, availability of spare vehicles, reliable data tracking system, or other pertinent aspects that will have direct impact to the project



- 4.1.2 Provide vehicle deployment strategy. This strategy shall, at a minimum, include:
    - i. Deployment of at least three (3) vehicles for the on-road operation in SCAB and SJVAB. The vehicles may be deployed by converting, repowering or upfitting existing fleet vehicles or by utilizing other similar means, in order to expedite effective field evaluation of the new engines or vehicle configuration as long as the strategy is consistent with the intended production configuration and the demonstration will produce valid test results, and that the engine OEM and chassis OEM designate that the findings will be representative of the commercial product
    - ii. Appropriate fleets to conduct the on-road vehicle demonstration
  - 4.1.3 Investigate transient performance of vehicles
  - 4.1.4 Confirm that the exhaust after-treatment technologies are working as intended
  - 4.1.5 Examine product electronic control strategies
  - 4.1.6 Finalize electronic controls
  - 4.1.7 Perform chassis dynamometer testing to quantify the expected in-use emissions and fuel consumption on a production-intent chassis. The chassis dynamometer testing shall be conducted on at least three drive cycles, chosen by the SCAQMD, to quantify BSFC and HC, NO<sub>x</sub>, CO, PM, NH<sub>3</sub>, and GHG emissions. The testing shall be conducted using natural gas that is laboratory tested to comply with CCR Title 13 Section 2292.5.
  - 4.1.8 Provide vehicle deployment strategy
  - 4.1.9 Establish telemetry based monitoring and data collection plan (including the data to be collected, the methods of collection, and the responsible contact)
  - 4.1.10 Evaluate vehicles in service and comparatively evaluate performance, fuel economy, maintenance, and reliability of the production-intent or production vehicles relative to 2010 EPA and CARB certified diesel engine in similar duty cycle
- 4.2 Coordinate and execute the on-road vehicle demonstration plan. This will include vehicle performance and emissions testing, transient performance testing, electronic control system development, and other activities to ensure the vehicles are ready for on-road operation.
- 4.3 Coordinate or conduct the collection of all necessary data to assess the engine, after-treatment, and vehicle reliability and emissions performance including, but not necessarily limited to,
- 4.3.1 Vehicle downtime to conduct development, maintenance or repair work associated with engine, exhaust after-treatment, or engine to vehicle integration
  - 4.3.2 Mileage accumulation, fuel and oil consumption, and operating cost.
- 4.4 Make the demonstration vehicles available for chassis dynamometer and/or in-field emissions or performance testing by an independent third party, as directed by SCAQMD. SCAQMD will work with the Contractor to avoid disruptions to the fleet and minimize vehicle downtime, which is estimated at three to four weeks for chassis testing and one week for field emissions/performance testing, if so directed.

## **SECTION VI: REQUIRED QUALIFICATIONS**

Individual consultants, consulting firms, engine OEM, exhaust after-treatment technology manufacturers, and vehicle chassis integrators proposing to bid on this proposal must assemble team members consisting of an engine OEM, engine exhaust after-treatment manufacturer, chassis integrator with production capability, and end-users with strong commitment to support the program. The team must possess a wide range of knowledge and experience in developing, emissions testing, and commercializing of alternative fuel technologies, natural gas heavy-duty vehicle engines, and engine exhaust after-treatment technologies.

Proposer must submit the following:

1. Resumes or similar statement of qualifications of the lead person and key persons assigned to the project. Substitution of project manager or lead person will not be permitted without prior written approval by SCAQMD.
2. List all key personnel assigned to the project by level, and name, and include resumes. Specify the estimated time to be spent by the lead person and key persons assigned to the project.
3. List specific portion of the project to be subcontracted. Include all subcontractors and their resumes or similar statement of qualification.
4. Summary of major similar projects handled during the last five years demonstrating experience in SCAQMD, federal, and state air quality regulations, heavy-duty alternative fuel engine and vehicle development, testing, chassis integration and commercialization, and engine exhaust after-treatment technologies.
5. A letter signed by an authorized official from an engine OEM, after-treatment manufacturer, chassis integrator, and natural gas heavy-duty vehicle fleets in SCAB and SJVAB committing to participate in the project and describing their level of involvement and co-funding contribution.

## **SECTION VII: PROPOSAL SUBMITTAL REQUIREMENTS**

Submitted proposals must follow the format outlined below and all requested information must be supplied. Failure to submit proposals in the required format will result in elimination from proposal evaluation.

Each proposal must be submitted in three separate volumes:

- Volume I - Technical Proposal
- Volume II - Cost Proposal
- Volume III - Certifications and Representations included in Attachment A to this RFP, should be executed by an authorized official of the Contractor.

A separate cover letter including the name, address, and telephone number of the contractor, and signed by the person or persons authorized to represent the firm should accompany the proposal submission. Firm contact information as follows should also be included in the cover letter:

1. Address and telephone number of office in, or nearest to, Diamond Bar, California.
2. Name and title of firm's representative designated as contact.

A separate Table of Contents should be provided for Volumes I and II.

## **VOLUME I - TECHNICAL PROPOSAL**

### **DO NOT INCLUDE ANY COST INFORMATION IN THE TECHNICAL VOLUME**

Summary (Section A) - State overall approach to meeting the objectives and satisfying the scope of work to be performed, the sequence of activities, and a description of methodology or techniques to be used. The following information shall be provided specific to the scope of work to be performed:

#### **Task A.1      Fuel Specification**

- (A.1.1) Proponent must identify a natural gas fuel strategy (CNG or LNG) for this project.
- (A.1.2) Proponent must present specific plans for sampling, transporting and analyzing natural gas to be used for engine test and on-road vehicle demonstration project. The plan must, at a minimum, analyze the fuel for water content, BTU value, percent methane, ethane, propane, butane, CO, CO<sub>2</sub>, hydrogen, oxygen, nitrogen, C<sub>3</sub><sup>+</sup>, and C<sub>6</sub><sup>+</sup>, contaminants, and Wobbe index.

#### **Task A.2      Development of Prototype Heavy-Duty Natural Gas Engine**

- (A.2.1) Proponent must present a detailed work-plan for the design, analysis, and development of proposed natural gas engine and exhaust after-treatment technologies. The plan must clearly describe all stages of engine and exhaust after-treatment technology development, including conceptual design, analysis of the design, prototype and production-intent or production build, and validation of the engine and after-treatment technology.
- (A.2.2) Proponent must present specifications and conceptual design strategy of the proposed heavy-duty natural gas engine and associated after-treatment technologies suitable for heavy-duty vehicle chassis and powertrain strategies in refuse, goods movement, drayage, transit and school bus market fleets.
- (A.2.3) Proponent must describe in detail development strategies for engine mechanical components, engine control system, and engine mechanical components and vehicle interface and packing requirements.
- (A.2.4) Proponent must provide sufficient details to enable evaluation of the overall design, development, and performance of the exhaust after-treatment technology and associated subsystems components, including, principles of operation, previous applications, capabilities and limitations, degradation rate, and secondary pollutants. Proponent must include development strategies for the exhaust after-treatment technology and engine interface and packing requirements.

- (A.2.5) Proponent must present how the prototype and production-intent or production engine and associated after-treatment technology will be validated. Proponent must also design a validation matrix which will identify all critical product specifications and document the status of the validation of the specifications.
- (A.2.6) Proponents must describe the durability testing procedure for the prototype and production-intent or production engine with the after-treatment technology.
- (A.2.7) Proponent must present a detailed plan for conducting an engine transient dynamometer tests per the EPA heavy-duty on-highway FTP duty cycle to collect and measure all the data necessary to determine the BSFC and HC, NO<sub>x</sub>, CO, PM, NH<sub>3</sub>, N<sub>2</sub>O, NO<sub>2</sub>, CO<sub>2</sub>, and ultrafine emissions from the production-intent or production engine with pre- and post-exhaust aftertreatment emissions measurements.
- (A.2.8) Proponent must include a detailed explanation of how the production or production engine and the after-treatment technology could be made available for an independent dynamometer emissions and performance testing. Proponent must identify the type and level of support (engine and after-treatment systems and on-site engineering staff) that will be provided to the independent laboratory to conduct the testing.
- (A.2.9) Proponent must present a path for obtaining U.S. EPA and CARB emissions certification and commercialization of the engine and after-treatment technology systems.

### Task A.3      Engine Vehicle Chassis Integration

- (A.3.1) Proponent must present a detailed work-plan for the design, feasibility and risk analysis, assemblage, and validation of prototype and production vehicle for heavy-duty vehicle applications. The plan must clearly describe all stages of engine, exhaust after-treatment technology, and vehicle integration, including conceptual design, analysis of the design, production-intent or production build, and validation of the vehicle.
- (A.3.2) Proponent must present specifications and conceptual design strategy suitable for heavy-duty vehicle chassis and powertrain strategies in refuse, goods movement, drayage, and transit and school buses' market fleets.
- (A.3.3) Proponent must describe in detail engine vehicle integration strategies for engine mechanical components, fuel system, electrical system, and exhaust after-treatment and associated subsystems requirements.
- (A.3.4) Proponent must include a detailed explanation of how the production or production-intent vehicle could be made available for independent chassis dynamometer emissions and performance testing. Proponent must identify the type and level of support (vehicle systems and on-site engineering staff) that will be provided to the independent laboratory to conduct the testing.
- (A.3.5) Proponent must present a detailed explanation of the path towards commercialization of the vehicle.

#### Task A.4      Vehicle Demonstration Plan

- (A.4.1) Proponent must develop an on-road vehicle demonstration plan. The plan must address, at a minimum, the following work elements:
- (A.4.1.1) Establish duration of the demonstration project and fleet selection criteria. The duration of the project shall not be less than six months, and the selection criteria must include tools to assess fleets'
- Capability to support the demonstration project
  - Access to fueling, trained technicians, availability of spare vehicles, reliable data tracking system, or other pertinent aspects that will have direct impact to the project
- (A.4.1.2) Provide vehicle deployment strategy. This strategy shall, at a minimum, include
- Deployment of at least three (3) vehicles for the on-road operation in SCAB and SJVAB. Proponent may propose to deploy vehicles by converting, repowering or upfitting existing fleet vehicles or by utilizing other similar means, in order to expedite effective field evaluation of the new engines or vehicle configuration as long as the strategy is consistent with the intended production configuration and the demonstration will produce valid test results, and that the engine OEM and chassis OEM designate that the findings will be representative of the commercial product.
  - Appropriate fleets to conduct the on-road vehicle demonstration.
- (A.4.1.3) Investigate transient performance of vehicles
- (A.4.1.4) Confirm that the exhaust after-treatment technologies are working as intended
- (A.4.1.5) Proponent must include a detailed explanation of how the production or production-intent vehicle will be chassis dynamometer tested to quantify fuel economy, criteria pollutants, and GHG's on at least three different drive cycles.
- (A.4.1.6) Provide vehicle deployment strategy
- (A.4.1.7) Establish telemetry based monitoring and data collection plan (including the data to be collected, the methods of collection, and the responsible contact)
- (A.4.1.8) Test vehicles in service for a duration defined by Contractor Teams, and objectively evaluate performance, fuel economy, maintenance, and reliability of the production-intent or production vehicles compared to 2010 EPA and CARB certified diesel engine in similar duty cycle
- (A.4.2) Proponent must discuss the procedure that would be used to collect all of the data necessary to assess the engine, after-treatment, and vehicle reliability and emissions performance.

Program Schedule (Section B) - Provide projected milestones or benchmarks for submitting reports within the total time allowed.

Project Organization (Section C) - Describe the proposed management structure, program monitoring procedures, and organization of the proposed team. At a minimum these items shall include:

- Proponent must identify each member of the project team in accordance with Section VI of this RFP. The team must include an engine OEM, after-treatment manufacturer, chassis integrator, and natural gas heavy-duty vehicle fleets that are committed to support the program under this RFP.
- The proponent must select participating fleets operating in the SCAB and SJVAB.
- Proponent must provide a commitment letter from each team member defining their contributions and responsibilities to the proposed project.
- Proponent must provide adequate information about each team member such that the evaluation panel can assess each member's contributions, commitments, responsibilities, and experience in heavy-duty engines and vehicles, engine industry, alternative fuel technologies, after-treatment technologies, and managing natural gas heavy-duty vehicle fleets.

Qualifications (Section D) - Describe the technical capabilities of the firm and all major subcontractors. Provide references of other similar studies performed during the last five years demonstrating ability to successfully complete the project. Include contact name, title, and telephone number for any references listed. Provide a statement of your firm's background and experience in performing similar projects for other governmental organizations.

Assigned Personnel (Section E) - Provide the following information on the staff to be assigned to this project:

1. List all key personnel assigned to the project by level and name. Provide a resume or similar statement of the qualifications of the lead person and all persons assigned to the project. Substitution of project manager or lead personnel will not be permitted without prior written approval of SCAQMD.
2. Provide a spreadsheet of the labor hours proposed for each labor category at the task level.
3. Provide a statement indicating whether or not 90% of the work will be performed within the geographical boundaries of the SCAQMD.
4. Provide a statement of the education and training program provided by, or required of, the staff identified for participation in the project, particularly with reference to management consulting, governmental practices and procedures, and technical matters.
5. Provide a summary of your firm's general qualifications to meet required qualifications and fulfill statement of work, including additional firm personnel and resources beyond those who may be assigned to the project.

Subcontractors (Section F) - This project may require expertise in multiple technical areas. List any subcontractors that may be used and the work to be performed by them.

Conflict of Interest (Section G) - Address possible conflicts of interest with other clients affected by actions performed by the firm on behalf of SCAQMD. Although the Proposer will not be automatically disqualified by reason of work performed for such firms, SCAQMD reserves the right to consider the nature and extent of such work in evaluating the proposal.

Additional Data (Section H) - Provide other essential data that may assist in the evaluation of this proposal.

## **VOLUME II - COST PROPOSAL**

Name and Address - The Cost Proposal must list the name and complete address of the Proposer in the upper left-hand corner.

Cost Proposal – SCAQMD anticipates awarding a fixed price contract. Cost information must be provided as listed below:

1. Detail must be provided by the following categories:

- A. Labor - List the total number of hours and the hourly billing rate for each level of professional staff. A breakdown of the proposed billing rates must identify the direct labor rate, overhead rate and amount, fringe benefit rate and amount, General and Administrative rate and amount, and proposed profit or fee. Provide a basis of estimate justifying the proposed labor hours and proposed labor mix.
- B. Subcontractor Costs - List subcontractor costs and identify subcontractors by name. Itemize subcontractor charges per hour or per day.
- C. Travel Costs - Indicate amount of travel cost and basis of estimate to include trip destination, purpose of trip, length of trip, airline fare or mileage expense, per diem costs, lodging and car rental.
- D. Other Direct Costs -This category may include such items as postage and mailing expense, printing and reproduction costs, etc. Provide a basis of estimate for these costs.

## **VOLUME III - CERTIFICATIONS AND REPRESENTATIONS** (see Attachment A to this RFP)

### **SECTION VIII: PROPOSAL SUBMISSION**

All proposals must be submitted according to specifications set forth in the section above. Failure to adhere to these specifications may be cause for rejection of proposal.

Signature - All proposals should be signed by an authorized representative of the Proposer.

Due Date - The Proposer shall submit eight (8) complete copies of the proposal in a sealed envelope, plainly marked in the upper left-hand corner with the name and address of the Proposer and the words "Request for Proposals #2013-XX." **All proposals are due no later than 5:00 p.m., July 24, 2013, and should be directed to:**

Procurement Unit  
South Coast Air Quality Management District  
21865 Copley Drive  
Diamond Bar, CA 91765-4178  
(909) 396-3520

**Late bids/proposals will not be accepted under any circumstances.** Any correction or resubmission done by the Proposer will not extend the submittal due date.

Grounds for Rejection - A proposal may be immediately rejected if:

- It is not prepared in the format described, or
- It is signed by an individual not authorized to represent the firm.

Disposition of Proposals - SCAQMD reserves the right to reject any or all proposals. All responses become the property of SCAQMD. One copy of the proposal shall be retained for SCAQMD files. Additional copies and materials will be returned only if requested and at the proposer's expense.

Modification or Withdrawal - Once submitted, proposals cannot be altered without the prior written consent of SCAQMD. All proposals shall constitute firm offers and may not be withdrawn for a period of ninety (90) days following the last day to accept proposals.

## **SECTION IX: PROPOSAL EVALUATION/CONTRACTOR SELECTION CRITERIA**

- A. A panel selected by the SCAQMD will evaluate all submitted proposals. This panel may include members outside the SCAQMD. The panel will make a recommendation to the Executive Officer and/or the Governing Board of the SCAQMD for final selection of a contractor and negotiation of a contract. Each member of the evaluation panel shall be accorded equal weight in his or her rating of proposals. The evaluation panel members shall evaluate the proposals according to the specified criteria and numerical weightings set forth below.

<b>Evaluation Criteria</b>	<b>Possible Points</b>
<b>Technical Approach</b> <ul style="list-style-type: none"><li>• Demonstrated knowledge and understanding of engine design and manufacturing, related past and current work and how the proposed effort builds on or expands from these prior efforts to ensure a production-intent design.</li><li>• Responsiveness in addressing the technology developments that will be required to attain the emissions levels targeted by this RFP.</li><li>• Discussion of techniques or technologies that will be incorporated to minimize NH3 emissions.</li><li>• Discussion of techniques or technologies that will be incorporated to maximize the fuel efficiency of the engine.</li><li>• Degree and source of the identified risk in demonstrating the proposed technology, including definition of potential technology deficiencies along with proposed solutions to mitigate risk.</li><li>• Soundness and technical feasibility of the proposed technology.</li><li>• Thoroughness of the validation testing to be undertaken to ensure the development of a robust product.</li></ul>	35



<ul style="list-style-type: none"> <li>• Completeness of the test plan for the operation and support of the on-road demonstration component of the project.</li> <li>• Diversity of the fleet applications chosen to demonstrate the technology in the field (drayage, refuse, regional goods movement, etc.).</li> <li>• Adequacy, reasonableness and soundness of the proposed project management approach, including criteria for and creation of go/ no-go decisions, interim milestones and success/ failure metrics to enable effective project management.</li> <li>• Adequacy and appropriateness of the schedule including the duration and sequencing of tasks and the scheduling of project milestones and decision points.</li> </ul>	
<b>Commercialization and Market Acceptance</b> <ul style="list-style-type: none"> <li>• Ability of the project team to commercialize the product.</li> <li>• Potential to compete economically in and benefit the U.S. marketplace.</li> <li>• Characterization of expected market penetration and major assumptions.</li> <li>• Identification of pathways and commercialization partners to connect the technology with the targeted end-users.</li> </ul>	20
<b>Applicant and Team Member Roles, Capabilities and Facilities</b> <ul style="list-style-type: none"> <li>• Qualifications and capabilities of key personnel.</li> <li>• Prior success in engine development and volume production.</li> <li>• Ability to assemble a team necessary for the successful implementation of the program.</li> <li>• Ability and adequacy of equipment, facilities, and other support necessary to be successful in the proposed work.</li> <li>• Level of commitment from project partners documented in the form of commitment letters.</li> </ul>	15
<b>Project Cost and Cost Share</b> <ul style="list-style-type: none"> <li>• The project cost is consistent with the work to be performed and is justified.</li> <li>• Percentage of cost share commitment. Proposals with higher levels of cost share will be scored higher.</li> <li>• Value expected to be received for the amount of SCAQMD contribution. Proposals that accomplish more with less SCAQMD funding will be rated higher.</li> </ul>	30

<b>Additional Preference Points</b> <ul style="list-style-type: none"> <li>• Small Business or Small Business Joint Venture (10 points)</li> <li>• DVBE or DVBE Joint Venture (10 points)</li> <li>• Use of DVBE or Small Business Subcontractors (7 points)</li> <li>• Local Business (5 points)</li> <li>• Low Emissions Vehicle Business (5 points)</li> <li>• Off-Peak Hours Delivery Business (2 points)</li> </ul> <p><b>The cumulative points awarded for small business, DVBE, use of small business or DVBE subcontractors, low emission vehicle business, local business, and off-peak hours delivery business shall not exceed 15 points.</b></p> <p><b>Note: The award of these additional points shall be contingent upon Proposer completing the Self-Certification section of Attachment A – Certifications and Representations and/or inclusion of a statement in the proposal self-certifying that Proposer qualifies for additional points as detailed above.</b></p>	15
<b>Total Possible Points</b>	<b>115</b>

1. To receive additional points in the evaluation process for the categories of Small Business or Small Business Joint Venture, DVBE or DVBE Joint Venture or Local Business (for non-federally funded projects), the proposer must submit a self-certification or certification from the State of California Office of Small Business Certification and Resources at the time of proposal submission certifying that the proposer meets the requirements set forth in Section III. To receive points for the use of DVBE and/or Small Business subcontractors, at least 25 percent of the total contract value must be subcontracted to DVBEs and/or Small Businesses. To receive points as a Low-Emission Vehicle Business, the proposer must demonstrate to the Executive Officer, or designee, that supplies and materials delivered to the SCAQMD are delivered in vehicles that operate on either clean-fuels or if powered by diesel fuel, that the vehicles have particulate traps installed. To receive points as an Off-Peak Hours Delivery Business, the proposer must submit, at proposal submission, certification of its commitment to delivering supplies and materials to SCAQMD between the hours of 10:00 a.m. and 3:00 p.m. The cumulative points awarded for small business, DVBE, use of Small Business or DVBE Subcontractors, Local Business, Low-Emission Vehicle Business and Off-Peak Hour Delivery Business shall not exceed 15 points.

The Procurement Section will be responsible for monitoring compliance of suppliers awarded purchase orders based upon use of low-emission vehicles or off-peak traffic hour delivery commitments through the use of vendor logs which will identify the contractor awarded the incentive. The purchase order shall incorporate terms which obligate the supplier to deliver materials in low-emission vehicles or deliver during off-peak traffic hours. The Receiving department will monitor those qualified supplier deliveries to ensure compliance to the purchase order requirements. Suppliers in non-compliance will be subject to a two percent of total purchase order value penalty. The

Procurement Manager will adjudicate any disputes regarding either low-emission vehicle or off-peak hour deliveries.

2. For procurement of Research and Development (R & D) projects or projects requiring technical or scientific expertise or special projects requiring unique knowledge and abilities, technical factors including past experience shall be weighted at 70 points and cost shall be weighted at 30 points. A proposal must receive at least 56 out of 70 points on R & D projects and projects requiring technical or scientific expertise or special projects requiring unique knowledge and abilities, in order to be deemed qualified for award.
  3. The lowest cost proposal will be awarded the maximum cost points available and all other cost proposals will receive points on a prorated basis. For example if the lowest cost proposal is \$1,000 and the maximum points available are 30 points, this proposal would receive the full 30 points. If the next lowest cost proposal is \$1,100 it would receive 27 points reflecting the fact that it is 10% higher than the lowest cost (90% of 30 points = 27 points).
- B. During the selection process the evaluation panel may wish to interview some proposers for clarification purposes only. No new material will be permitted at this time.
- C. The Executive Officer or Governing Board may award the contract to a proposer other than the proposer receiving the highest rating in the event the Governing Board determines that another proposer from among those technically qualified would provide the best value to SCAQMD considering cost and technical factors. The determination shall be based solely on the Evaluation Criteria contained in the Request for Proposal (RFP), on evidence provided in the proposal and on any other evidence provided during the bid review process. Evidence provided during the bid review process is limited to clarification by the Proposer of information presented in his/her proposal.
- D. Selection will be made based on the above-described criteria and rating factors. The selection will be made by and is subject to Executive Officer or Governing Board approval. Proposers may be notified of the results by letter.
- E. The Governing Board has approved a Bid Protest Procedure which provides a process for a bidder or prospective bidder to submit a written protest to the SCAQMD Procurement Manager in recognition of two types of protests: Protest Regarding Solicitation and Protest Regarding Award of a Contract. Copies of the Bid Protest Policy can be secured through a request to the SCAQMD Procurement Department.
- F. The Executive Officer or Governing Board may award contracts to more than one proposer if in (his or their) sole judgment the purposes of the (contract or award) would best be served by selecting multiple proposers.
- G. If additional funds become available, the Executive Officer or Governing Board may increase the amount awarded. The Executive Officer or Governing Board may also select additional proposers for a grant or contract if additional funds become available.
- H. Upon mutual agreement of the parties of any resultant contract from this RFP, the original contract term may be extended.

## SECTION X: FUNDING/ CO-FUNDING

### A. Available Funding

The SCAQMD, California Energy Commission (CEC), San Joaquin Valley Air Pollution Control District (SJVAPCD) and Southern California Gas Company (SoCalGas) are expected to allocate a total of \$9 million to this RFP, and additional cost share funding is expected from prospective contractors. SCAQMD anticipates awarding up to 3 contracts under this RFP based on the quality of proposals received. SCAQMD retains discretion to make full awards, partial awards, or no awards at all under this RFP. If the choice to make a partial award causes any prospective contractor to withdraw, the funds that would have been awarded to the prospective contractor will be re-allocated to the next prospective contractor on a SCAQMD Board approved ranked list. **In the event that Federal funding may become available to support these activities, the total funding available under this RFP may exceed \$9 million and additional awards may be made.**

### B. Co-Funding Requirements

SCAQMD and the other funding organizations require matching funds or other significant co-funding under this RFP. The RFP requires co-funding/matching funds for at least 25% of the total project costs. Proposals that provide less than 25% of the total project costs as co-funding/match funds will be considered non-responsive; however, proposals that provide higher levels of co-funding/matching funds will be scored higher.

As such, proposals must include co-funding/matching funds to be eligible for funding under this RFP. Co-funding/matching funds are that portion of the total contract cost not funded by the SCAQMD, SJVAPCD, CEC or SoCalGas. The Clean Fuels Program has achieved a high degree of leverage with its technology advancement funds. Proponents will receive additional proposal evaluation points under Section VIII, based upon the amount of verified co-funding/matching funds. **Proponents are encouraged to provide maximum verifiable matching/cofunding funds for their projects.**

Co-funding/matching funds can come from a variety of sources. For purposes of this project, either a direct cash match and/or an in-kind contribution with a verifiable cash value will be considered as co-funding. Supporting documentation must be provided as part of the proposal to support the estimated value of any proposed in-kind contributions. Since cost points will be awarded in the evaluation process for the amount of co-funding proposed, proponents must submit firm letters of commitment or other binding documents evidencing the co-funding amounts as part of their proposal submission. **All Co-Funding For Successful Bidders Must Be Verified Prior To Contract Execution.**

The amounts and sources of all matching funds must be specified in the proposal. In addition, the proposal should contain a description of how co-funding will be used in relation to the project, and in relation to any awarded SCAQMD funds. Successful bidders need to keep track of these matching funds once the contract to proceed with the project is executed. **Please Note That Matching Funds Must Be Spent Concurrently With SCAQMD Funds.**

Proposed co-funding must be spent only on the project described in the proposal. In addition, as matching funds are spent, documentation on the types and amounts of the expenditures must be provided in writing to the SCAQMD.

Staff time, facility use, equipment, and most property may count toward co-funding as long as it is fully dedicated to the project for the time the property or equipment is required by the Contract. In all cases, the SCAQMD reserve the right to review and approve or disapprove the crediting of contributions and the amounts of those contributions as matching funds.

Property and equipment that do not qualify as co-funding include such items as standard office supplies and standard office equipment (excluding equipment used for demonstration purposes) that are part of the bidder's normal business operation.

C. **SECTION XI: DRAFT CONTRACT (Provided as a sample only)**



**South Coast  
Air Quality Management District**

1. PARTIES - The parties to this Contract are the South Coast Air Quality Management District (referred to here as "SCAQMD") whose address is 21865 Copley Drive, Diamond Bar, California 91765-4178, and \*\*\* (referred to here as "CONTRACTOR") whose address is \*\*\*.
2. RECITALS
  - A. SCAQMD is the local agency with primary responsibility for regulating stationary source air pollution in the South Coast Air Basin in the State of California. SCAQMD is authorized to enter into this Contract under California Health and Safety Code Section 40489. SCAQMD desires to contract with CONTRACTOR for services described in Attachment 1 - Statement of Work, attached here and made a part here by this reference. CONTRACTOR warrants that it is well-qualified and has the experience to provide such services on the terms set forth here.
  - B. CONTRACTOR is authorized to do business in the State of California and attests that it is in good tax standing with the California Franchise Tax Board.
  - C. All parties to this Contract have had the opportunity to have this Contract reviewed by their attorney.
  - D. CONTRACTOR agrees to obtain the required licenses, permits, and all other appropriate legal authorizations from all applicable federal, state and local jurisdictions and pay all applicable fees.
3. PERFORMANCE REQUIREMENTS
  - A. CONTRACTOR warrants that it holds all necessary and required licenses and permits to provide these services. CONTRACTOR further agrees to immediately notify SCAQMD in writing of any change in its licensing status.
  - B. CONTRACTOR shall submit reports to SCAQMD as outlined in Attachment 1 - Statement of Work. All reports shall be submitted in an environmentally friendly format: recycled paper; stapled, not bound; black and white, double-sided print; and no three-ring, spiral, or plastic binders or cardstock covers. SCAQMD reserves the right to review, comment, and request changes to any report produced as a result of this Contract.
  - C. CONTRACTOR shall perform all tasks set forth in Attachment 1 - Statement of Work, and shall not engage, during the term of this Contract, in any performance of work that is in direct or indirect conflict with duties and responsibilities set forth in Attachment 1 - Statement of Work.
  - D. CONTRACTOR shall be responsible for exercising the degree of skill and care customarily required by accepted professional practices and procedures subject to SCAQMD's final approval which SCAQMD will not unreasonably withhold. Any costs incurred due to the failure to meet the foregoing standards, or otherwise defective services which require re-performance, as directed by SCAQMD, shall be the responsibility of CONTRACTOR. CONTRACTOR's failure to achieve the performance goals and objectives stated in Attachment 1- Statement of Work, is not a basis for requesting re-performance unless work conducted by CONTRACTOR is deemed by SCAQMD to have failed the foregoing standards of performance.
  - E. CONTRACTOR shall post a performance bond in the amount of \*\*\* Dollars (\$\*\*\*) from a surety authorized to issue such bonds within the State. **[USE IF REQUIRED]**
  - F. SCAQMD has the right to review the terms and conditions of the performance bond and to request modifications thereto which will ensure that SCAQMD will be compensated in the event CONTRACTOR fails to perform and also provides SCAQMD with the opportunity to review the qualifications of the entity

designated by the issuer of the performance bond to perform in CONTRACTOR's absence and, if necessary, the right to reject such entity. [USE IF REQUIRED]

G. CONTRACTOR shall ensure, through its contracts with any subcontractor(s), that employees and agents performing under this Contract shall abide by the requirements set forth in this clause.

4. TERM - The term of this Contract is from the date of execution by both parties (or insert date) to \*\*\*, unless further extended by amendment of this Contract in writing. No work shall commence until this Contract is fully executed by all parties.

5. TERMINATION

A. In the event any party fails to comply with any term or condition of this Contract, or fails to provide services in the manner agreed upon by the parties, including, but not limited to, the requirements of Attachment 1 – Statement of Work, this failure shall constitute a breach of this Contract. The non-breaching party shall notify the breaching party that it must cure this breach or provide written notification of its intention to terminate this contract. Notification shall be provided in the manner set forth in Clause 11. The non-breaching party reserves all rights under law and equity to enforce this contract and recover damages.

B. SCAQMD reserves the right to terminate this Agreement, in whole or in part, without cause, upon thirty (30) days' written notice. Once such notice has been given, CONTRACTOR shall, except as and to the extent or directed otherwise by SCAQMD, discontinue any Work being performed under this Agreement and cancel any of CONTRACTOR's orders for materials, facilities, and supplies in connection with such Work, and shall use its best efforts to procure termination of existing subcontracts upon terms satisfactory to SCAQMD. Thereafter, CONTRACTOR shall perform only such services as may be necessary to preserve and protect any Work already in progress and to dispose of any property as requested by SCAQMD.

C. CONTRACTOR shall be paid in accordance with this Agreement for all work performed before the effective date of termination under Clause 5.B. Before expiration of the thirty (30) days' written notice, CONTRACTOR shall promptly deliver to SCAQMD all copies of documents and other information and data prepared or developed by CONTRACTOR under this Agreement with the exception of a record copy of such materials, which may be retained by CONTRACTOR.

6. INSURANCE

A. CONTRACTOR shall furnish evidence to SCAQMD of workers' compensation insurance for each of its employees, in accordance with either California or other states' applicable statutory requirements prior to commencement of any work on this Contract.

B. CONTRACTOR shall furnish evidence to SCAQMD of general liability insurance with a limit of at least \$1,000,000 per occurrence, and \$2,000,000 in a general aggregate prior to commencement of any work on this Contract. SCAQMD shall be named as an additional insured on any such liability policy, and thirty (30) days written notice prior to cancellation of any such insurance shall be given by CONTRACTOR to SCAQMD.

C. CONTRACTOR shall furnish evidence to SCAQMD of automobile liability insurance with limits of at least \$100,000 per person and \$300,000 per accident for bodily injuries, and \$50,000 in property damage, or \$1,000,000 combined single limit for bodily injury or property damage, prior to commencement of any work on this Contract. SCAQMD shall be named as an additional insured on any such liability policy, and thirty (30) days written notice prior to cancellation of any such insurance shall be given by CONTRACTOR to SCAQMD.

D. CONTRACTOR shall furnish evidence to SCAQMD of Professional Liability Insurance with an aggregate limit of not less than \$5,000,000. [OPTIONAL FOR PROFESSIONAL SERVICES]

- E. If CONTRACTOR fails to maintain the required insurance coverage set forth above, SCAQMD reserves the right either to purchase such additional insurance and to deduct the cost thereof from any payments owed to CONTRACTOR or terminate this Contract for breach.
  - F. All insurance certificates should be mailed to: SCAQMD Risk Management, 21865 Copley Drive, Diamond Bar, CA 91765-4178. **The SCAQMD Contract Number must be included on the face of the certificate.**
  - G. CONTRACTOR must provide updates on the insurance coverage throughout the term of the Contract to ensure that there is no break in coverage during the period of contract performance. Failure to provide evidence of current coverage shall be grounds for termination for breach of Contract.
7. **INDEMNIFICATION** - CONTRACTOR agrees to hold harmless, defend and indemnify SCAQMD, its officers, employees, agents, representatives, and successors-in-interest against any and all loss, damage, costs, lawsuits, demands, judgments, legal fees, or any other expenses incurred or required to be paid by SCAQMD, its officers, employees, agents, representatives, or successors-in-interest arising from or related to any injury to persons or damage to property caused directly or indirectly, in whole or in part, by any willful or negligent act or omission of CONTRACTOR, its employees, subcontractors, agents or representatives in the performance of this Contract.
  8. **CO-FUNDING** **[USE IF REQUIRED]**
    - A. CONTRACTOR shall obtain co-funding as follows: \*\*\* , \*\*\* Dollars (\$\*\*\*); \*\*\* , \*\*\* Dollars (\$\*\*\*); \*\*\* , \*\*\* Dollars (\$\*\*\*); \*\*\* , \*\*\* Dollars (\$\*\*\*); and \*\*\* , \*\*\* Dollars (\$\*\*\*).
    - B. If CONTRACTOR fails to obtain co-funding in the amount(s) referenced above, then SCAQMD reserves the right to renegotiate or terminate this Contract.
    - C. CONTRACTOR shall provide co-funding in the amount of \*\*\* Dollars (\$\*\*\*) for this project. If CONTRACTOR fails to provide this co-funding, then SCAQMD reserves the right to renegotiate or terminate this Contract.
  9. **PAYMENT**  
**[FIXED PRICE]-use this one or the T&M one below.**
    - A. SCAQMD shall pay CONTRACTOR a fixed price of \*\*\* Dollars (\$\*\*\*) for work performed under this Contract in accordance with Attachment 2 - Payment Schedule, attached here and included here by reference. Payment shall be made by SCAQMD to CONTRACTOR within thirty (30) days after approval by SCAQMD of an invoice prepared and furnished by CONTRACTOR showing services performed and referencing tasks and deliverables as shown in Attachment 1 - Statement of Work, and the amount of charge claimed. Each invoice must be prepared in duplicate, on company letterhead, and list SCAQMD's Contract number, period covered by invoice, and CONTRACTOR's social security number or Employer Identification Number and submitted to: South Coast Air Quality Management District, Attn: \*\*\*.
    - B. An amount equal to ten percent (10%) shall be withheld from all charges paid until satisfactory completion and final acceptance of work by SCAQMD. **[OPTIONAL]**
    - C. SCAQMD reserves the right to disallow charges when the invoiced services are not performed satisfactorily in SCAQMD sole judgment.**[T & M]-use this one or the Fixed Price one above.**
    - A. SCAQMD shall pay CONTRACTOR a total not to exceed amount of \*\*\* Dollars (\$\*\*\*), including any authorized travel-related expenses, for time and materials at rates in accordance with Attachment 2 – Cost Schedule, attached here and included here by this reference. Payment of charges shall be made by SCAQMD to CONTRACTOR within thirty (30) days after approval by SCAQMD of an itemized invoice prepared and furnished by CONTRACTOR referencing line item expenditures as listed in Attachment 2 and the amount of charge claimed. Each invoice must be prepared in duplicate, on company letterhead,



and list SCAQMD's Contract number, period covered by invoice, and CONTRACTOR's social security number or Employer Identification Number and submitted to: South Coast Air Quality Management District, Attn: \*\*\*.

- B. CONTRACTOR shall adhere to total tasks and/or cost elements (cost category) expenditures as listed in Attachment 2. Reallocation of costs between tasks and/or cost category expenditures is permitted up to One Thousand Dollars (\$1,000) upon prior written approval from SCAQMD. Reallocation of costs in excess of One Thousand Dollars (\$1,000) between tasks and/or cost category expenditures requires an amendment to this Contract.
- C. SCAQMD's payment of invoices shall be subject to the following limitations and requirements:
  - i) Charges for equipment, material, and supply costs, travel expenses, subcontractors, and other charges, as applicable, must be itemized by CONTRACTOR. Reimbursement for equipment, material, supplies, subcontractors, and other charges shall be made at actual cost. Supporting documentation must be provided for all individual charges (with the exception of direct labor charges provided by CONTRACTOR). SCAQMD's reimbursement of travel expenses and requirements for supporting documentation are listed below.
  - ii) CONTRACTOR's failure to provide receipts shall be grounds for SCAQMD's non-reimbursement of such charges. SCAQMD may reduce payments on invoices by those charges for which receipts were not provided.
  - iii) SCAQMD shall not pay interest, fees, handling charges, or cost of money on Contract.
- D. SCAQMD shall reimburse CONTRACTOR for travel-related expenses only if such travel is expressly set forth in Attachment 2 – Cost Schedule of this Contract or pre-authorized by SCAQMD in writing.
  - i) SCAQMD's reimbursement of travel-related expenses shall cover lodging, meals, other incidental expenses, and costs of transportation subject to the following limitations:
    - Air Transportation - Coach class rate for all flights. If coach is not available, business class rate is permissible.
    - Car Rental - A compact car rental. A mid-size car rental is permissible if car rental is shared by three or more individuals.
    - Lodging - Up to One Hundred Fifty Dollars (\$150) per night. A higher amount of reimbursement is permissible if pre-approved by SCAQMD.
    - Meals - Daily allowance is Fifty Dollars (\$50.00).
  - ii) Supporting documentation shall be provided for travel-related expenses in accordance with the following requirements:
    - Lodging, Airfare, Car Rentals - Bill(s) for actual expenses incurred.
    - Meals - Meals billed in excess of \$50.00 each day require receipts or other supporting documentation for the total amount of the bill and must be approved by SCAQMD.
    - Mileage - Beginning each January 1, the rate shall be adjusted effective February 1 by the Chief Financial Officer based on the Internal Revenue Service Standard Mileage Rate
    - Other travel-related expenses - Receipts are required for all individual items.
- E. SCAQMD reserves the right to disallow charges when the invoiced services are not performed satisfactorily in SCAQMD sole judgment.

- 10. INTELLECTUAL PROPERTY RIGHTS - Title and full ownership rights to any software, documents, or reports developed under this Contract shall at all times remain with SCAQMD. Such material is agreed to be SCAQMD proprietary information.
  - A. Rights of Technical Data - SCAQMD shall have the unlimited right to use technical data, including material designated as a trade secret, resulting from the performance of services by CONTRACTOR under this Contract. CONTRACTOR shall have the right to use technical data for its own benefit.

B. Copyright - CONTRACTOR agrees to grant SCAQMD a royalty-free, nonexclusive, irrevocable license to produce, translate, publish, use, and dispose of all copyrightable material first produced or composed in the performance of this Contract.

11. NOTICES - Any notices from either party to the other shall be given in writing to the attention of the persons listed below, or to other such addresses or addressees as may hereafter be designated in writing for notices by either party to the other. Notice shall be given by certified, express, or registered mail, return receipt requested, and shall be effective as of the date of receipt indicated on the return receipt card.

SCAQMD: South Coast Air Quality Management District  
21865 Copley Drive  
Diamond Bar, CA 91765-4178  
Attn: \*\*\*

CONTRACTOR: \*\*\*  
\*\*\*  
\*\*\*  
Attn: \*\*\*

12. EMPLOYEES OF CONTRACTOR

- A. SCAQMD reserves the right to review the resumes of any of CONTRACTOR employees, and/or any subcontractors selected to perform the work specified here and to disapprove CONTRACTOR choices. CONTRACTOR warrants that it will employ no subcontractor without written approval from SCAQMD. CONTRACTOR shall be responsible for the cost of regular pay to its employees, as well as cost of vacation, vacation replacements, sick leave, severance pay and pay for legal holidays.
- B. CONTRACTOR, its officers, employees, agents, representatives or subcontractors shall in no sense be considered employees or agents of SCAQMD, nor shall CONTRACTOR, its officers, employees, agents, representatives or subcontractors be entitled to or eligible to participate in any benefits, privileges, or plans, given or extended by SCAQMD to its employees.
- C. SCAQMD requires Contractor to be in compliance with all state and federal laws and regulations with respect to its employees throughout the term of this Contract, including state minimum wage laws and OSHA requirements.

13. CONFIDENTIALITY - It is expressly understood and agreed that SCAQMD may designate in a conspicuous manner the information which CONTRACTOR obtains from SCAQMD as confidential. CONTRACTOR agrees to:

- A. Observe complete confidentiality with respect to such information, including without limitation, agreeing not to disclose or otherwise permit access to such information by any other person or entity in any manner whatsoever, except that such disclosure or access shall be permitted to employees or subcontractors of CONTRACTOR requiring access in fulfillment of the services provided under this Contract.
- B. Ensure that CONTRACTOR's officers, employees, agents, representatives, and independent contractors are informed of the confidential nature of such information and to assure by agreement or otherwise that they are prohibited from copying or revealing, for any purpose whatsoever, the contents of such information or any part thereof, or from taking any action otherwise prohibited under this clause.
- C. Not use such information or any part thereof in the performance of services to others or for the benefit of others in any form whatsoever whether gratuitously or for valuable consideration, except as permitted under this Contract.

- D. Notify SCAQMD promptly and in writing of the circumstances surrounding any possession, use, or knowledge of such information or any part thereof by any person or entity other than those authorized by this clause.
- E. Take at CONTRACTOR expense, but at SCAQMD's option and in any event under SCAQMD's control, any legal action necessary to prevent unauthorized use of such information by any third party or entity which has gained access to such information at least in part due to the fault of CONTRACTOR.
- F. Take any and all other actions necessary or desirable to assure such continued confidentiality and protection of such information.
- G. Prevent access to such information by any person or entity not authorized under this Contract.
- H. Establish specific procedures in order to fulfill the obligations of this clause.
- I. Notwithstanding the above, nothing herein is intended to abrogate or modify the provisions of Government Code Section 6250 et seq. (Public Records Act).

14. PUBLICATION

- A. SCAQMD shall have the right of prior written approval of any document which shall be disseminated to the public by CONTRACTOR in which CONTRACTOR utilized information obtained from SCAQMD in connection with performance under this Contract.
- B. Information, data, documents, or reports developed by CONTRACTOR for SCAQMD, pursuant to this Contract, shall be part of SCAQMD public record unless otherwise indicated. CONTRACTOR may use or publish, at its own expense, such information provided to SCAQMD. The following acknowledgment of support and disclaimer must appear in each publication of materials, whether copyrighted or not, based upon or developed under this Contract.

"This report was prepared as a result of work sponsored, paid for, in whole or in part, by the South Coast Air Quality Management District (SCAQMD). The opinions, findings, conclusions, and recommendations are those of the author and do not necessarily represent the views of SCAQMD. SCAQMD, its officers, employees, contractors, and subcontractors make no warranty, expressed or implied, and assume no legal liability for the information in this report. SCAQMD has not approved or disapproved this report, nor has SCAQMD passed upon the accuracy or adequacy of the information contained herein."

- C. CONTRACTOR shall inform its officers, employees, and subcontractors involved in the performance of this Contract of the restrictions contained herein and require compliance with the above.

15. NON-DISCRIMINATION - In the performance of this Contract, CONTRACTOR shall not discriminate in recruiting, hiring, promotion, demotion, or termination practices on the basis of race, religious creed, color, national origin, ancestry, sex, age, or physical or mental disability and shall comply with the provisions of the California Fair Employment & Housing Act (Government Code Section 12900 et seq.), the Federal Civil Rights Act of 1964 (P.L. 88-352) and all amendments thereto, Executive Order No. 11246 (30 Federal Register 12319), and all administrative rules and regulations issued pursuant to said Acts and Order. CONTRACTOR shall likewise require each subcontractor to comply with this clause and shall include in each such subcontract language similar to this clause.

16. SOLICITATION OF EMPLOYEES - CONTRACTOR expressly agrees that CONTRACTOR shall not, during the term of this Contract, nor for a period of six months after termination, solicit for employment, whether as an employee or independent contractor, any person who is or has been employed by SCAQMD during the term of this Contract without the consent of SCAQMD.

17. PROPERTY AND SECURITY - Without limiting CONTRACTOR obligations with regard to security, CONTRACTOR shall comply with all the rules and regulations established by SCAQMD for access to and activity in and around SCAQMD premises.
18. ASSIGNMENT - The rights granted hereby may not be assigned, sold, licensed, or otherwise transferred by either party without the prior written consent of the other, and any attempt by either party to do so shall be void upon inception.
19. NON-EFFECT OF WAIVER - The failure of CONTRACTOR or SCAQMD to insist upon the performance of any or all of the terms, covenants, or conditions of this Contract, or failure to exercise any rights or remedies hereunder, shall not be construed as a waiver or relinquishment of the future performance of any such terms, covenants, or conditions, or of the future exercise of such rights or remedies, unless otherwise provided for herein.
20. ATTORNEYS' FEES - In the event any action is filed in connection with the enforcement or interpretation of this Contract, each party shall bear its own attorneys' fees and costs.
21. FORCE MAJEURE - Neither SCAQMD nor CONTRACTOR shall be liable or deemed to be in default for any delay or failure in performance under this Contract or interruption of services resulting, directly or indirectly, from acts of God, civil or military authority, acts of public enemy, war, strikes, labor disputes, shortages of suitable parts, materials, labor or transportation, or any similar cause beyond the reasonable control of SCAQMD or CONTRACTOR.
22. SEVERABILITY - In the event that any one or more of the provisions contained in this Contract shall for any reason be held to be unenforceable in any respect by a court of competent jurisdiction, such holding shall not affect any other provisions of this Contract, and the Contract shall then be construed as if such unenforceable provisions are not a part hereof.
23. HEADINGS - Headings on the clauses of this Contract are for convenience and reference only, and the words contained therein shall in no way be held to explain, modify, amplify, or aid in the interpretation, construction, or meaning of the provisions of this Contract.
24. DUPLICATE EXECUTION - This Contract is executed in duplicate. Each signed copy shall have the force and effect of an original.
25. GOVERNING LAW - This Contract shall be construed and interpreted and the legal relations created thereby shall be determined in accordance with the laws of the State of California. Venue for resolution of any disputes under this Contract shall be Los Angeles County, California.
26. CITIZENSHIP AND ALIEN STATUS
  - A. CONTRACTOR warrants that it fully complies with all laws regarding the employment of aliens and others, and that its employees performing services hereunder meet the citizenship or alien status requirements contained in federal and state statutes and regulations including, but not limited to, the Immigration Reform and Control Act of 1986 (P.L. 99-603). CONTRACTOR shall obtain from all covered employees performing services hereunder all verification and other documentation of employees' eligibility status required by federal statutes and regulations as they currently exist and as they may be hereafter amended. CONTRACTOR shall have a continuing obligation to verify and document the continuing employment authorization and authorized alien status of employees performing services under this Contract to insure continued compliance with all federal statutes and regulations.

- B. Notwithstanding paragraph A above, CONTRACTOR, in the performance of this Contract, shall not discriminate against any person in violation of 8 USC Section 1324b.
- C. CONTRACTOR shall retain such documentation for all covered employees for the period described by law. CONTRACTOR shall indemnify, defend, and hold harmless SCAQMD, its officers and employees from employer sanctions and other liability which may be assessed against CONTRACTOR or SCAQMD, or both in connection with any alleged violation of federal statutes or regulations pertaining to the eligibility for employment of persons performing services under this Contract.
27. FEDERAL FAIR SHARE POLICY - As a recipient of Environmental Protection Agency (EPA) grant funds, SCAQMD is required to flow down to all of its contractors the provisions of 40 CFR Section 31.36(e) which addresses affirmative steps for contracting with small-and-minority firms, women's business enterprises, and labor surplus area firms. CONTRACTOR agrees to comply with these provisions.
28. REQUIREMENT FOR FILING STATEMENT OF ECONOMIC INTERESTS - In accordance with the Political Reform Act of 1974 (Government Code Sec. 81000 et seq.) and regulations issued by the Fair Political Practices Commission (FPPC), SCAQMD has determined that the nature of the work to be performed under this Contract requires CONTRACTOR to submit a Form 700, Statement of Economic Interests for Designated Officials and Employees, for each of its employees assigned to work on this Contract. These forms may be obtained from SCAQMD's District Counsel's office. **[USE IF REQUIRED]**
29. COMPLIANCE WITH SINGLE AUDIT ACT REQUIREMENTS **[OPTIONAL - TO BE INCLUDED IN CONTRACTS WITH FOR-PROFIT CONTRACTORS WHICH HAVE FEDERAL PASS-THROUGH FUNDING]** - During the term of the Contract, and for a period of three (3) years from the date of Contract expiration, and if requested in writing by the SCAQMD, CONTRACTOR shall allow the SCAQMD, its designated representatives and/or the cognizant Federal Audit Agency, access during normal business hours to all records and reports related to the work performed under this Contract. CONTRACTOR assumes sole responsibility for reimbursement to the Federal Agency funding the prime grant or contract, a sum of money equivalent to the amount of any expenditures disallowed should the SCAQMD, its designated representatives and/or the cognizant Federal Audit Agency rule through audit exception or some other appropriate means that expenditures from funds allocated to the CONTRACTOR were not made in compliance with the applicable cost principles, regulations of the funding agency, or the provisions of this Contract.

**[OPTIONAL - TO BE INCLUDED IN CONTRACTS WITH NON-PROFIT CONTRACTORS WHICH HAVE FEDERAL PASS-THROUGH FUNDING]** - Beginning with CONTRACTOR's current fiscal year and continuing through the term of this Contract, CONTRACTOR shall have a single or program-specific audit conducted in accordance with the requirements of the Office of Management and Budget (OMB) Circular A-133 (Audits of States, Local Governments and Non-Profit Organizations), if CONTRACTOR expended Five Hundred Thousand Dollars (\$500,000) or more in a year in Federal Awards. Such audit shall be conducted by a firm of independent accountants in accordance with Generally Accepted Government Audit Standards (GAGAS). Within thirty (30) days of Contract execution, CONTRACTOR shall forward to SCAQMD the most recent A-133 Audit Report issued by its independent auditors. Subsequent A-133 Audit Reports shall be submitted to the SCAQMD within thirty (30) days of issuance.

CONTRACTOR shall allow the SCAQMD, its designated representatives and/or the cognizant Federal Audit Agency, access during normal business hours to all records and reports related to the work performed under this Contract. CONTRACTOR assumes sole responsibility for reimbursement to the Federal Agency funding the prime grant or contract, a sum of money equivalent to the amount of any expenditures disallowed should the SCAQMD, its designated representatives and/or the cognizant Federal Audit Agency rule through audit exception or some other appropriate means that expenditures from funds allocated to the CONTRACTOR were

not made in compliance with the applicable cost principles, regulations of the funding agency, or the provisions of this Contract.

30. OPTION TO EXTEND THE TERM OF THE CONTRACT - SCAQMD reserves the right to extend the contract for a one-year period commencing \*\*\*\*\* (enter date) at the (option price or Not-to-Exceed Amount) set forth in Attachment 2. In the event that SCAQMD elects to extend the contract, a written notice of its intent to extend the contract shall be provided to CONTRACTOR no later than thirty (30) days prior to Contract expiration. [USE IF REQUIRED]
31. KEY PERSONNEL - *insert person's name* is deemed critical to the successful performance of this Contract. Any changes in key personnel by CONTRACTOR must be approved by SCAQMD. All substitute personnel must possess qualifications/experience equal to the original named key personnel and must be approved by SCAQMD. SCAQMD reserves the right to interview proposed substitute key personnel. [USE IF REQUIRED]
32. PREVAILING WAGES – [USE FOR INFRASTRUCTURE PROJECTS] CONTRACTOR is alerted to the prevailing wage requirements of California Labor Code section 1770 et seq. Copies of the prevailing rate of per diem wages are on file at the SCAQMD's headquarters, of which shall be made available to any interested party on request. Notwithstanding the preceding sentence, CONTRACTOR shall be responsible for determining the applicability of the provisions of California Labor Code and complying with the same, including, without limitation, obtaining from the Director of the Department of Industrial Relations the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work, making the same available to any interested party upon request, paying any applicable prevailing rates, posting copies thereof at the job site and flowing all applicable prevailing wage rate requirements to its subcontractors. CONTRACTOR shall indemnify, defend and hold harmless the South Coast Air Quality Management District against any and all claims, demands, damages, defense costs or liabilities based on failure to adhere to the above referenced statutes.
33. APPROVAL OF SUBCONTRACT
- A. If CONTRACTOR intends to subcontract a portion of the work under this Contract, written approval of the terms of the proposed subcontract(s) shall be obtained from SCAQMD's Executive Officer or designee prior to execution of the subcontract. No subcontract charges will be reimbursed unless such approval has been obtained.
  - B. Any material changes to the subcontract(s) that affect the scope of work, deliverable schedule, and/or cost schedule shall also require the written approval of the Executive Officer or designee prior to execution.
  - C. The sole purpose of SCAQMD's review is to insure that SCAQMD's contract rights have not been diminished in the subcontractor agreement. SCAQMD shall not supervise, direct, or have control over, or be responsible for, subcontractor's means, methods, techniques, work sequences or procedures or for the safety precautions and programs incident thereto, or for any failure of subcontractor to comply with any local, state, or federal laws, or rules or regulations.
34. ENTIRE CONTRACT - This Contract represents the entire agreement between the parties hereto related to CONTRACTOR providing services to SCAQMD and there are no understandings, representations, or warranties of any kind except as expressly set forth herein. No waiver, alteration, or modification of any of the provisions herein shall be binding on any party unless in writing and signed by the party against whom enforcement of such waiver, alteration, or modification is sought.

IN WITNESS WHEREOF, the parties to this Contract have caused this Contract to be duly executed on their behalf by their authorized representatives.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT \*\*\*

By: _____	By: _____
Barry R. Wallerstein, D.Env., Executive Officer	Name: _____
Dr. William A. Burke, Chairman, Governing Board	Title: _____

Date: _____	Date: _____
-------------	-------------

ATTEST:  
Saundra McDaniel, Clerk of the Board

By: \_\_\_\_\_

APPROVED AS TO FORM:  
Kurt R. Wiese, General Counsel

By: \_\_\_\_\_



## **ATTACHMENT A**

### **CERTIFICATIONS AND REPRESENTATIONS**



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-417

(909) 396-2000 • [www.aqmd.gov](http://www.aqmd.gov)

## **Business Information Request**

Dear SCAQMD Contractor/Supplier:

The South Coast Air Quality Management District (SCAQMD) is committed to ensuring that our contractor/supplier records are current and accurate. If your firm is selected for award of a purchase order or contract, it is imperative that the information requested herein be supplied in a timely manner to facilitate payment of invoices. In order to process your payments, we need the enclosed information regarding your account. **Please review and complete the information identified on the following pages, complete the enclosed W-9 form, remember to sign both documents for our files, and return them as soon as possible to the address below:**

**Attention: Accounts Payable, Accounting Department  
South Coast Air Quality Management District  
21865 Copley Drive  
Diamond Bar, CA 91765-4178**

If you do not return this information, we will not be able to establish you as a vendor. This will delay any payments and would still necessitate your submittal of the enclosed information to our Accounting department before payment could be initiated. Completion of this document and enclosed forms would ensure that your payments are processed timely and accurately.

If you have any questions or need assistance in completing this information, please contact Accounting at (909) 396-3777. We appreciate your cooperation in completing this necessary information.

Sincerely,

Michael B. O'Kelly  
Chief Financial Officer

DH:tm

Enclosures: Business Information Request  
Disadvantaged Business Certification  
W-9  
Form 590 Withholding Exemption Certificate  
Federal Contract Debarment Certification  
Campaign Contributions Disclosure  
Direct Deposit Authorization

REV 3/13



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • [www.aqmd.gov](http://www.aqmd.gov)

## BUSINESS INFORMATION REQUEST

Business Name	
Division of	
Subsidiary of	
Website Address	
Type of Business <i>Check One:</i>	<input type="checkbox"/> Individual <input type="checkbox"/> DBA, Name _____, County Filed in _____ <input type="checkbox"/> Corporation, ID No. _____ <input type="checkbox"/> LLC/LLP, ID No. _____ <input type="checkbox"/> Other _____

## REMITTING ADDRESS INFORMATION

Address			
City/Town			
State/Province		Zip	
Phone	(     )     -     Ext	Fax	(     )     -
Contact		Title	
E-mail Address			
Payment Name if Different			

All invoices must reference the corresponding Purchase Order Number(s)/Contract Number(s) if applicable and mailed to:

**Attention: Accounts Payable, Accounting Department**

**South Coast Air Quality Management District  
21865 Copley Drive  
Diamond Bar, CA 91765-4178**

## DISADVANTAGED BUSINESS CERTIFICATION

Federal guidance for utilization of disadvantaged business enterprises allows a vendor to be deemed a small business enterprise (SBE), minority business enterprise (MBE) or women business enterprise (WBE) if it meets the criteria below.

- is certified by the Small Business Administration or
- is certified by a state or federal agency or
- is an independent MBE(s) or WBE(s) business concern which is at least 51 percent owned and controlled by minority group member(s) who are citizens of the United States.

### Statements of certification:

As a prime contractor to the SCAQMD, \_\_\_\_\_ (name of business) will engage in good faith efforts to achieve the fair share in accordance with 40 CFR Section 33.301, and will follow the six affirmative steps listed below **for contracts or purchase orders funded in whole or in part by federal grants and contracts.**

1. Place qualified SBEs, MBEs, and WBEs on solicitation lists.
2. Assure that SBEs, MBEs, and WBEs are solicited whenever possible.
3. When economically feasible, divide total requirements into small tasks or quantities to permit greater participation by SBEs, MBEs, and WBEs.
4. Establish delivery schedules, if possible, to encourage participation by SBEs, MBEs, and WBEs.
5. Use services of Small Business Administration, Minority Business Development Agency of the Department of Commerce, and/or any agency authorized as a clearinghouse for SBEs, MBEs, and WBEs.
6. If subcontracts are to be let, take the above affirmative steps.

### Self-Certification Verification: Also for use in awarding additional points, as applicable, in accordance with SCAQMD Procurement Policy and Procedure:

Check all that apply:

- ☐ Small Business Enterprise/Small Business Joint Venture ☐ Women-owned Business Enterprise  
☐ Local business ☐ Disabled Veteran-owned Business Enterprise/DVBE Joint Venture  
☐ Minority-owned Business Enterprise

Percent of ownership: \_\_\_\_\_ %

Name of Qualifying Owner(s): \_\_\_\_\_

I, the undersigned, hereby declare that to the best of my knowledge the above information is accurate. Upon penalty of perjury, I certify information submitted is factual.

\_\_\_\_\_  
B. NAME

\_\_\_\_\_  
TITLE

\_\_\_\_\_  
C. TELEPHONE NUMBER

\_\_\_\_\_  
DATE

## **Definitions**

**Disabled Veteran-Owned Business Enterprise** means a business that meets all of the following criteria:

- is a sole proprietorship or partnership of which is at least 51 percent owned by one or more disabled veterans, or in the case of any business whose stock is publicly held, at least 51 percent of the stock is owned by one or more disabled veterans; a subsidiary which is wholly owned by a parent corporation but only if at least 51 percent of the voting stock of the parent corporation is owned by one or more disabled veterans; or a joint venture in which at least 51 percent of the joint venture's management and control and earnings are held by one or more disabled veterans.
- the management and control of the daily business operations are by one or more disabled veterans. The disabled veterans who exercise management and control are not required to be the same disabled veterans as the owners of the business.
- is a sole proprietorship, corporation, partnership, or joint venture with its primary headquarters office located in the United States and which is not a branch or subsidiary of a foreign corporation, firm, or other foreign-based business.

**Joint Venture** means that one party to the joint venture is a DVBE and owns at least 51 percent of the joint venture. In the case of a joint venture formed for a single project this means that DVBE will receive at least 51 percent of the project dollars.

**Local Business** means a business that meets all of the following criteria:

- has an ongoing business within the boundary of the SCAQMD at the time of bid application.
- performs 90 percent of the work within SCAQMD's jurisdiction.

**Minority-Owned Business Enterprise** means a business that meets all of the following criteria:

- is at least 51 percent owned by one or more minority persons or in the case of any business whose stock is publicly held, at least 51 percent of the stock is owned by one or more minority persons.
- is a business whose management and daily business operations are controlled or owned by one or more minority person.
- is a business which is a sole proprietorship, corporation, partnership, joint venture, an association, or a cooperative with its primary headquarters office located in the United States, which is not a branch or subsidiary of a foreign corporation, foreign firm, or other foreign business.

"Minority" person means a Black American, Hispanic American, Native American (including American Indian, Eskimo, Aleut, and Native Hawaiian), Asian-Indian American (including a person whose origins are from India, Pakistan, or Bangladesh), Asian-Pacific American (including a person whose origins are from Japan, China, the Philippines, Vietnam, Korea, Samoa, Guam, the United States Trust Territories of the Pacific, Northern Marianas, Laos, Cambodia, or Taiwan).

**Small Business Enterprise** means a business that meets the following criteria:

- a. 1) an independently owned and operated business; 2) not dominant in its field of operation; 3) together with affiliates is either:
  - **A service, construction, or non-manufacturer with 100 or fewer employees, and average annual gross receipts of ten million dollars (\$10,000,000) or less over the previous three years, or**
  - A manufacturer with 100 or fewer employees.
- b. Manufacturer means a business that is both of the following:
  - 1) Primarily engaged in the chemical or mechanical transformation of raw materials or processed substances into new products.
  - 2) Classified between Codes 311000 to 339000, inclusive, of the North American Industrial Classification System (NAICS) Manual published by the United States Office of Management and Budget, 2007 edition.

**Small Business Joint Venture** means that one party to the joint venture is a Small Business and owns at least 51 percent of the joint venture. In the case of a joint venture formed for a single project this means that the Small Business will receive at least 51 percent of the project dollars.

**Women-Owned Business Enterprise** means a business that meets all of the following criteria:

- is at least 51 percent owned by one or more women or in the case of any business whose stock is publicly held, at least 51 percent of the stock is owned by one or more women.
- is a business whose management and daily business operations are controlled or owned by one or more women.
- is a business which is a sole proprietorship, corporation, partnership, or a joint venture, with its primary headquarters office located in the United States, which is not a branch or subsidiary of a foreign corporation, foreign firm, or other foreign business.

## Request for Taxpayer Identification Number and Certification

Give Form to the  
requester. Do not  
send to the IRS.

Print or type See Specific Instructions on page 2.	Name (as shown on your income tax return)	
	Business name/disregarded entity name, if different from above	
	Check appropriate box for federal tax classification: <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <input type="checkbox"/> Other (see instructions) ▶ _____	
	<input type="checkbox"/> Exempt payee	
	Address (number, street, and apt. or suite no.) City, state, and ZIP code List account number(s) here (optional)	Requester's name and address (optional)

### Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

**Note.** If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

<b>Social security number</b>								
				-				
<b>Employer identification number</b>								
				-				

### Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below).

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 4.

<b>Sign Here</b>	Signature of U.S. person ▶	Date ▶
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### General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

#### Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

**Note.** If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

**Definition of a U.S. person.** For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

**Special rules for partnerships.** Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.



The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

- The U.S. owner of a disregarded entity and not the entity,
- The U.S. grantor or other owner of a grantor trust and not the trust, and
- The U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

**Foreign person.** If you are a foreign person, do not use Form W-9. Instead, use the appropriate Form W-8 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

**Nonresident alien who becomes a resident alien.** Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

**Example.** Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity not subject to backup withholding, give the requester the appropriate completed Form W-8.

**What is backup withholding?** Persons making certain payments to you must under certain conditions withhold and pay to the IRS a percentage of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

### **Payments you receive will be subject to backup withholding if:**

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),
3. The IRS tells the requester that you furnished an incorrect TIN,
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See the instructions below and the separate Instructions for the Requester of Form W-9.

Also see *Special rules for partnerships* on page 1.

### **Updating Your Information**

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account, for example, if the grantor of a grantor trust dies.

### **Penalties**

**Failure to furnish TIN.** If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

**Civil penalty for false information with respect to withholding.** If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

**Criminal penalty for falsifying information.** Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

**Misuse of TINs.** If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

## **Specific Instructions**

### **Name**

If you are an individual, you must generally enter the name shown on your income tax return. However, if you have changed your last name, for instance, due to marriage without informing the Social Security Administration of the name change, enter your first name, the last name shown on your social security card, and your new last name.

If the account is in joint names, list first, and then circle, the name of the person or entity whose number you entered in Part I of the form.

**Sole proprietor.** Enter your individual name as shown on your income tax return on the "Name" line. You may enter your business, trade, or "doing business as (DBA)" name on the "Business name/disregarded entity name" line.

**Partnership, C Corporation, or S Corporation.** Enter the entity's name on the "Name" line and any business, trade, or "doing business as (DBA)" name on the "Business name/disregarded entity name" line.

**Disregarded entity.** Enter the owner's name on the "Name" line. The name of the entity entered on the "Name" line should never be a disregarded entity. The name on the "Name" line must be the name shown on the income tax return on which the income will be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a domestic owner, the domestic owner's name is required to be provided on the "Name" line. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on the "Business name/disregarded entity name" line. If the owner of the disregarded entity is a foreign person, you must complete an appropriate Form W-8.

**Note.** Check the appropriate box for the federal tax classification of the person whose name is entered on the "Name" line (Individual/sole proprietor, Partnership, C Corporation, S Corporation, Trust/estate).

**Limited Liability Company (LLC).** If the person identified on the "Name" line is an LLC, check the "Limited liability company" box only and enter the appropriate code for the tax classification in the space provided. If you are an LLC that is treated as a partnership for federal tax purposes, enter "P" for partnership. If you are an LLC that has filed a Form 8832 or a Form 2553 to be taxed as a corporation, enter "C" for C corporation or "S" for S corporation. If you are an LLC that is disregarded as an entity separate from its owner under Regulation section 301.7701-3 (except for employment and excise tax), do not check the LLC box unless the owner of the LLC (required to be identified on the "Name" line) is another LLC that is not disregarded for federal tax purposes. If the LLC is disregarded as an entity separate from its owner, enter the appropriate tax classification of the owner identified on the "Name" line.



**Other entities.** Enter your business name as shown on required federal tax documents on the "Name" line. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on the "Business name/disregarded entity name" line.

## Exempt Payee

If you are exempt from backup withholding, enter your name as described above and check the appropriate box for your status, then check the "Exempt payee" box in the line following the "Business name/disregarded entity name," sign and date the form.

Generally, individuals (including sole proprietors) are not exempt from backup withholding. Corporations are exempt from backup withholding for certain payments, such as interest and dividends.

**Note.** If you are exempt from backup withholding, you should still complete this form to avoid possible erroneous backup withholding.

The following payees are exempt from backup withholding:

1. An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2),
  2. The United States or any of its agencies or instrumentalities,
  3. A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities,
  4. A foreign government or any of its political subdivisions, agencies, or instrumentalities, or
  5. An international organization or any of its agencies or instrumentalities.
- Other payees that may be exempt from backup withholding include:
6. A corporation,
  7. A foreign central bank of issue,
  8. A dealer in securities or commodities required to register in the United States, the District of Columbia, or a possession of the United States,
  9. A futures commission merchant registered with the Commodity Futures Trading Commission,
  10. A real estate investment trust,
  11. An entity registered at all times during the tax year under the Investment Company Act of 1940,
  12. A common trust fund operated by a bank under section 584(a),
  13. A financial institution,
  14. A middleman known in the investment community as a nominee or custodian, or
  15. A trust exempt from tax under section 664 or described in section 4947.

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 15.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 9
Broker transactions	Exempt payees 1 through 5 and 7 through 13. Also, C corporations.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 5
Payments over \$600 required to be reported and direct sales over \$5,000 <sup>1</sup>	Generally, exempt payees 1 through 7 <sup>2</sup>

<sup>1</sup> See Form 1099-MISC, Miscellaneous Income, and its instructions.

<sup>2</sup> However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney, and payments for services paid by a federal executive agency.

## Part I. Taxpayer Identification Number (TIN)

**Enter your TIN in the appropriate box.** If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on page 2), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

**Note.** See the chart on page 4 for further clarification of name and TIN combinations.

**How to get a TIN.** If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local Social Security Administration office or get this form online at [www.ssa.gov](http://www.ssa.gov). You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at [www.irs.gov/businesses](http://www.irs.gov/businesses) and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting [IRS.gov](http://IRS.gov) or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

**Note.** Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

**Caution:** A disregarded domestic entity that has a foreign owner must use the appropriate Form W-8.

## Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, below, and items 4 and 5 on page 4 indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on the "Name" line must sign. Exempt payees, see *Exempt Payee* on page 3.

**Signature requirements.** Complete the certification as indicated in items 1 through 3, below, and items 4 and 5 on page 4.

**1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983.** You must give your correct TIN, but you do not have to sign the certification.

**2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983.** You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

**3. Real estate transactions.** You must sign the certification. You may cross out item 2 of the certification.

**4. Other payments.** You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

**5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions.** You must give your correct TIN, but you do not have to sign the certification.

### What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account <sup>1</sup>
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor <sup>2</sup>
4. a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law	The grantor-trustee <sup>3</sup>  The actual owner <sup>1</sup>
5. Sole proprietorship or disregarded entity owned by an individual	The owner <sup>3</sup>
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulation section 1.671-4(b)(2)(i)(A))	The grantor <sup>*</sup>
For this type of account:	Give name and EIN of:
7. Disregarded entity not owned by an individual	The owner
8. A valid trust, estate, or pension trust	Legal entity <sup>4</sup>
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulation section 1.671-4(b)(2)(i)(B))	The trust

<sup>1</sup> List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

<sup>2</sup> Circle the minor's name and furnish the minor's SSN.

<sup>3</sup> You must show your individual name and you may also enter your business or "DBA" name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

<sup>4</sup> List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships* on page 1.

<sup>\*</sup>**Note.** Grantor also must provide a Form W-9 to trustee of trust.

**Note.** If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

### Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, social security number (SSN), or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Publication 4535, Identity Theft Prevention and Victim Assistance.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

### Protect yourself from suspicious emails or phishing schemes.

Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to [phishing@irs.gov](mailto:phishing@irs.gov). You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: [spam@uce.gov](mailto:spam@uce.gov) or contact them at [www.ftc.gov/idtheft](http://www.ftc.gov/idtheft) or 1-877-IDTHEFT (1-877-438-4338).

Visit [IRS.gov](http://IRS.gov) to learn more about identity theft and how to reduce your risk.

### Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.



**2013 Withholding Exemption Certificate****590**

This form can only be used to certify exemption from nonresident withholding under California Revenue and Taxation Code (R&TC) Section 18662. Do not use this form for exemption from wage withholding.

File this form with your withholding agent. (Please type or print)

Withholding agent's name \_\_\_\_\_

Payee's name \_\_\_\_\_

Payee's ☐ SSN or ITIN ☐ FEIN  
☐ CA corp. no. ☐ CA SOS file no

Address (number and street, PO Box, or PMB no.) \_\_\_\_\_

Apt. no./ Ste. no. \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

ZIP Code \_\_\_\_\_

Read the following carefully and check the box that applies to the payee.

I certify that for the reasons checked below, the payee named on this form is exempt from the California income tax withholding requirement on payment(s) made to the entity or individual.

☐ **Individuals — Certification of Residency:**

I am a resident of California and I reside at the address shown above. If I become a nonresident at any time, I will promptly notify the withholding agent. See instructions for General Information D, Who is a Resident, for the definition of a resident.

☐ **Corporations:**

The above-named corporation has a permanent place of business in California at the address shown above or is qualified through the California Secretary of State (SOS) to do business in California. The corporation will file a California tax return and withhold on payments of California source income to nonresidents when required. If this corporation ceases to have a permanent place of business in California or ceases to do any of the above, I will promptly notify the withholding agent. See instructions for General Information F, What is a Permanent Place of Business, for the definition of permanent place of business.

☐ **Partnerships or limited liability companies (LLC):**

The above-named partnership or LLC has a permanent place of business in California at the address shown above or is registered with the California SOS, and is subject to the laws of California. The partnership or LLC will file a California tax return and will withhold on foreign and domestic nonresident partners or members when required. If the partnership or LLC ceases to do any of the above, I will promptly inform the withholding agent. For withholding purposes, a limited liability partnership (LLP) is treated like any other partnership.

☐ **Tax-Exempt Entities:**

The above-named entity is exempt from tax under California Revenue and Taxation Code (R&TC) Section 23701 \_\_\_\_\_ (insert letter) or Internal Revenue Code Section 501(c) \_\_\_\_\_ (insert number). The tax-exempt entity will withhold on payments of California source income to nonresidents when required. If this entity ceases to be exempt from tax, I will promptly notify the withholding agent. Individuals cannot be tax-exempt entities.

☐ **Insurance Companies, Individual Retirement Arrangements (IRAs), or Qualified Pension/Profit Sharing Plans:**

The above-named entity is an insurance company, IRA, or a federally qualified pension or profit-sharing plan.

☐ **California Trusts:**

At least one trustee and one noncontingent beneficiary of the above-named trust is a California resident. The trust will file a California fiduciary tax return and will withhold on foreign and domestic nonresident beneficiaries when required. If the trustee becomes a nonresident at any time, I will promptly notify the withholding agent.

☐ **Estates — Certification of Residency of Deceased Person:**

I am the executor of the above-named person's estate. The decedent was a California resident at the time of death. The estate will file a California fiduciary tax return and will withhold on foreign and domestic nonresident beneficiaries when required.

☐ **Nonmilitary Spouse of a Military Servicemember:**

I am a nonmilitary spouse of a military servicemember and I meet the Military Spouse Residency Relief Act (MSRRA) requirements. See instructions for General Information E, MSRRA.

**CERTIFICATE:** Please complete and sign below.

Under penalties of perjury, I hereby certify that the information provided in this document is, to the best of my knowledge, true and correct. If conditions change, I will promptly notify the withholding agent.

Payee's name and title (type or print) \_\_\_\_\_ Daytime telephone no. \_\_\_\_\_

Payee's signature ☐ \_\_\_\_\_ Date \_\_\_\_\_

# Instructions for Form 590

## Withholding Exemption Certificate

References in these instructions are to the California Revenue and Taxation Code (R&TC).

### General Information

For purposes of California income tax, references to a spouse, husband, or wife also refer to a Registered Domestic Partner (RDP) unless otherwise specified. For more information on RDPs, get FTB Pub. 737, Tax Information for Registered Domestic Partners. **Private Mail Box (PMB)** – Include the PMB in the address field. Write “PMB” first, then the box number. Example: 111 Main Street PMB 123.

**Foreign Address** – Enter the information in the following order: City, Country, Province/Region, and Postal Code. Follow the country's practice for entering the postal code. Do not abbreviate the country's name.

### A Purpose

Use Form 590, Withholding Exemption Certificate, to certify an exemption from nonresident withholding. California residents or entities should complete and present Form 590 to the withholding agent. The withholding agent is then relieved of the withholding requirements if the agent relies in good faith on a completed and signed Form 590 unless told by the Franchise Tax Board (FTB) that the form should not be relied upon.

**Important** – This form cannot be used for exemption from wage and real estate withholding.

- If you are an employee, any wage withholding questions should be directed to the FTB General Information number, 800.852.5711. Employers should call 888.745.3886 or go to [edd.ca.gov](http://edd.ca.gov).
- Sellers of California real estate use Form 593-C, Real Estate Withholding Certificate, to claim an exemption from real estate withholding.

### B Requirement

R&TC Section 18662 requires withholding of income or franchise tax on payments of California source income made to nonresidents of California.

Withholding is required on the following, but is not limited to:

- Payments to nonresidents for services rendered in California.
- Distributions of California source income made to domestic nonresident S corporation shareholders, partners and members and allocations of California source income made to foreign partners and members.
- Payments to nonresidents for rents if the payments are made in the course of the withholding agent's business.
- Payments to nonresidents for royalties with activities in California.

- Distributions of California source income to nonresident beneficiaries from an estate or trust.
- Prizes and winnings received by nonresidents for contests in California.

However, withholding is optional if the total payments of California source income are \$1,500 or less during the calendar year. For more information on withholding get FTB Pub. 1017, Resident and Nonresident Withholding Guidelines. To get a withholding publication see General Information H, Publications, Forms, and Additional Information.

**Backup Withholding** – Beginning on or after January 1, 2010, with certain limited exceptions, payers that are required to withhold and remit backup withholding to the Internal Revenue Service (IRS) are also required to withhold and remit to the FTB. The California backup withholding rate is 7% of the payment. For California purposes, dividends, interests, and any financial institutions release of loan funds made in the normal course of business are exempt from backup withholding. For additional information on California backup withholding, go to [ftb.ca.gov](http://ftb.ca.gov) and search for **backup withholding**.

If a payee has backup withholding, the payee must contact the FTB to provide a valid Taxpayer Identification Number (TIN) before filing a tax return. The following are acceptable TINs: social security number (SSN); individual taxpayer identification number (ITIN); federal employer identification number (FEIN); California corporation number (CA Corp No.); or California Secretary of State (SOS) file number. Failure to provide a valid TIN will result in the denial of the backup withholding credit. For more information go to [ftb.ca.gov](http://ftb.ca.gov) and search for **backup withholding**.

**Who is Excluded from Withholding** – The following are excluded from withholding and completing this form:

- The United States and any of its agencies or instrumentalities
- A state, a possession of the United States, the District of Columbia, or any of its political subdivisions or instrumentalities
- A foreign government or any of its political subdivisions, agencies, or instrumentalities

### C Who Certifies this Form

Form 590 is certified by the payee. An incomplete certificate is invalid and the withholding agent should not accept it. If the withholding agent receives an incomplete certificate, the withholding agent is required to withhold tax on payments made to the payee until a valid certificate is received. In lieu of a completed certificate on the preprinted form, the

withholding agent may accept as a substitute certificate a letter from the payee explaining why the payee is not subject to withholding. The letter must contain all the information required on the certificate in similar language, including the under penalty of perjury statement and the payee's taxpayer identification number. The withholding agent must retain a copy of the certificate or substitute for at least four years after the last payment to which the certificate applies, and provide it upon request to the FTB.

For example, if an entertainer (or the entertainer's business entity) is paid for a performance, the entertainer's information must be provided. Do not submit the entertainer's agent or promoter information.

The grantor of a grantor trust shall be treated as the payee for withholding purposes.

Therefore, if the payee is a grantor trust and one or more of the grantors is a nonresident, withholding is required. If all of the grantors on the trust are residents, no withholding is required. Resident grantors can check the box on Form 590 labeled “Individuals — Certification of Residency.”

### D Who is a Resident

A California resident is any individual who is in California for other than a temporary or transitory purpose or any individual domiciled in California who is absent for a temporary or transitory purpose.

An individual domiciled in California who is absent from California for an uninterrupted period of at least 546 consecutive days under an employment-related contract is considered outside California for other than a temporary or transitory purpose.

An individual is still considered outside California for other than a temporary or transitory purpose if return visits to California do not total more than 45 days during any taxable year covered by an employment contract.

This provision does not apply if an individual has income from stocks, bonds, notes, or other intangible personal property in excess of \$200,000 in any taxable year in which the employment-related contract is in effect.

A spouse/RDP absent from California for an uninterrupted period of at least 546 days to accompany a spouse/RDP under an employment-related contract is considered outside of California for other than a temporary or transitory purpose.

Generally, an individual who comes to California for a purpose which will extend over a long or indefinite period will be considered a resident. However, an individual who comes to perform a particular contract of short duration will be considered a nonresident.

For assistance in determining resident status, get FTB Pub. 1031, Guidelines for Determining Resident Status, and FTB Pub. 1032, Tax Information for Military Personnel, or call the FTB at 800.852.5711 or 916.845.6500.

## E Military Spouse Residency Relief Act (MSRRA)

Generally, for tax purposes you are considered to maintain your existing residence or domicile. If a military servicemember and nonmilitary spouse have the same state of domicile, the MSRRA provides:

- A spouse shall not be deemed to have lost a residence or domicile in any state solely by reason of being absent to be with the servicemember serving in compliance with military orders.
- A spouse shall not be deemed to have acquired a residence or domicile in any other state solely by reason of being there to be with the servicemember serving in compliance with military orders.

Domicile is defined as the one place:

- Where you maintain a true, fixed, and permanent home
- To which you intend to return whenever you are absent

A military servicemember's nonmilitary spouse is considered a nonresident for tax purposes if the servicemember and spouse have the same domicile outside of California and the spouse is in California solely to be with the servicemember who is serving in compliance with Permanent Change of Station orders. Note: California may require nonmilitary spouses of military servicemembers to provide proof that they meet the criteria for California personal income tax exemption as set forth in the MSRRA.

Income of a military servicemember's nonmilitary spouse for services performed in California is not California source income subject to state tax if the spouse is in California to be with the servicemember serving in compliance with military orders, and the servicemember and spouse have the same domicile in a state other than California.

For additional information or assistance in determining whether the applicant meets the MSRRA requirements, get FTB Pub. 1032.

## F What is a Permanent Place of Business

A corporation has a permanent place of business in California if it is organized and existing under the laws of California or if it is a foreign corporation qualified to transact intrastate business by the California SOS. A corporation that has not qualified to transact intrastate business (e.g., a corporation engaged exclusively in interstate commerce) will be considered as having a permanent place of business in California only if it maintains a permanent office in California that is permanently staffed by its employees.

## G Withholding Agent

Keep Form 590 for your records. Do not send this form to the FTB unless it has been specifically requested.

For more information, contact Withholding Services and Compliance, see General Information H.

The payee must notify the withholding agent if any of the following situations occur:

- The individual payee becomes a nonresident.
- The corporation ceases to have a permanent place of business in California or ceases to be qualified to do business in California.
- The partnership ceases to have a permanent place of business in California.
- The LLC ceases to have a permanent place of business in California.
- The tax-exempt entity loses its tax-exempt status.

The withholding agent must then withhold and report the withholding using Form 592, Resident and Nonresident Withholding Statement, and remit the withholding using Form 592-V, Payment Voucher for Resident and Nonresident Withholding. Form 592-B, Resident and Nonresident Withholding Tax Statement, is retained by the withholding agent and a copy is given to the payee.

## H Additional Information

To get additional nonresident withholding information, contact the Withholding Services and Compliance.

WITHHOLDING SERVICES AND  
COMPLIANCE MS F182  
FRANCHISE TAX BOARD  
PO BOX 942867  
SACRAMENTO CA 94267-0651

Telephone: 888.792.4900

916.845.4900

Fax: 916.845.9512

You can download, view, and print California tax forms and publications at [ftb.ca.gov](http://ftb.ca.gov).

OR to get forms by mail write to:

TAX FORMS REQUEST UNIT MS F284  
FRANCHISE TAX BOARD  
PO BOX 307  
RANCHO CORDOVA CA 95741-0307

For all other questions unrelated to withholding or to access the TTY/TDD numbers, see the information below.

### Internet and Telephone Assistance

Website: [ftb.ca.gov](http://ftb.ca.gov)

Telephone: 800.852.5711 from within the  
United States  
916.845.6500 from outside the  
United States

TTY/TDD: 800.822.6268 for persons with  
hearing or speech impairments

### Asistencia Por Internet y Teléfono

Sitio web: [ftb.ca.gov](http://ftb.ca.gov)

Teléfono: 800.852.5711 dentro de los  
Estados Unidos  
916.845.6500 fuera de los Estados  
Unidos

TTY/TDD: 800.822.6268 personas con  
discapacidades auditivas  
y del habla





United State Environmental Protection Agency  
Washington, DC 20460

## **Certification Regarding Debarment, Suspension, and Other Responsibility Matters**

The prospective participant certifies to the best of its knowledge and belief that it and the principals:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- (b) Have not within a three year period preceding this proposal been convicted of or had a civil judgement rendered against them or commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction: violation of Federal or State antitrust statute or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and
- (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

I understand that a false statement on this certification may be grounds for rejection of this proposal or termination of the award. In addition, under 18 USC Sec. 1001, a false statement may result in a fine of up to \$10,000 or imprisonment for up to 5 years, or both.

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Typed Name & Title of Authorized Representative

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Signature of Authorized Representative Date

☐ I am unable to certify to the above statements. My explanation is attached.

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EPA Form 5700-49 (11-88)



## CAMPAIGN CONTRIBUTIONS DISCLOSURE

In accordance with California law, bidders and contracting parties are required to disclose, at the time the application is filed, information relating to any campaign contributions made to South Coast Air Quality Management District (SCAQMD) Board Members or members/alternates of the MSRC, including: the name of the party making the contribution (which includes any parent, subsidiary or otherwise related business entity, as defined below), the amount of the contribution, and the date the contribution was made. 2 C.C.R. §18438.8(b).

California law prohibits a party, or an agent, from making campaign contributions to SCAQMD Governing Board Members or members/alternates of the Mobile Source Air Pollution Reduction Review Committee (MSRC) of more than \$250 while their contract or permit is pending before the SCAQMD; and further prohibits a campaign contribution from being made for three (3) months following the date of the final decision by the Governing Board or the MSRC on a donor's contract or permit. Gov't Code §84308(d). For purposes of reaching the \$250 limit, the campaign contributions of the bidder or contractor *plus* contributions by its parents, affiliates, and related companies of the contractor or bidder are added together. 2 C.C.R. §18438.5.

In addition, SCAQMD Board Members or members/alternates of the MSRC must abstain from voting on a contract or permit if they have received a campaign contribution from a party or participant to the proceeding, or agent, totaling more than \$250 in the 12-month period prior to the consideration of the item by the Governing Board or the MSRC. Gov't Code §84308(c).

The list of current SCAQMD Governing Board Members can be found at the SCAQMD website ([www.aqmd.gov](http://www.aqmd.gov)). The list of current MSRC members/alternates can be found at the MSRC website (<http://www.cleantransportationfunding.org>).

### **SECTION I.**

**Contractor (Legal Name):** \_\_\_\_\_

- ☐ DBA, Name \_\_\_\_\_, County Filed in \_\_\_\_\_

☐ Corporation, ID No. \_\_\_\_\_

☐ LLC/LLP, ID No. \_\_\_\_\_

**List any parent, subsidiaries, or otherwise affiliated business entities of Contractor:**  
(See definition below).

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### **SECTION II.**

Has Contractor and/or any parent, subsidiary, or affiliated company, or agent thereof, made a campaign contribution(s) totaling \$250 or more in the aggregate to a current member of the South Coast Air Quality Management Governing Board or member/alternate of the MSRC in the 12 months preceding the date of execution of this disclosure?

☐ Yes    ☐ No    **If YES, complete Section II below and then sign and date the form.  
If NO, sign and date below. Include this form with your submittal.**

**THIS IS A SAMPLE ONLY**

**Page 52 of 54**

**Campaign Contributions Disclosure, continued:**

Name of Contributor \_\_\_\_\_

Governing Board Member or MSRC Member/Alternate	Amount of Contribution	Date of Contribution
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Name of Contributor \_\_\_\_\_

Governing Board Member or MSRC Member/Alternate	Amount of Contribution	Date of Contribution
---	------------------------	----------------------

Name of Contributor \_\_\_\_\_

Governing Board Member or MSRC Member/Alternate	Amount of Contribution	Date of Contribution
---	------------------------	----------------------

Name of Contributor \_\_\_\_\_

Governing Board Member or MSRC Member/Alternate	Amount of Contribution	Date of Contribution
---	------------------------	----------------------

**I declare the foregoing disclosures to be true and correct.**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**DEFINITIONS**

Parent, Subsidiary, or Otherwise Related Business Entity (2 Cal. Code of Regs., §18703.1(d).)

- (1) Parent subsidiary. A parent subsidiary relationship exists when one corporation directly or indirectly owns shares possessing more than 50 percent of the voting power of another corporation.
- (2) Otherwise related business entity. Business entities, including corporations, partnerships, joint ventures and any other organizations and enterprises operated for profit, which do not have a parent subsidiary relationship are otherwise related if any one of the following three tests is met:
  - (A) One business entity has a controlling ownership interest in the other business entity.
  - (B) There is shared management and control between the entities. In determining whether there is shared management and control, consideration should be given to the following factors:
    - (i) The same person or substantially the same person owns and manages the two entities;
    - (ii) There are common or commingled funds or assets;
    - (iii) The business entities share the use of the same offices or employees, or otherwise share activities, resources or personnel on a regular basis;
    - (iv) There is otherwise a regular and close working relationship between the entities; or
  - (C) A controlling owner (50% or greater interest as a shareholder or as a general partner) in one entity also is a controlling owner in the other entity.





South Coast  
AIR QUALITY MANAGEMENT DISTRICT  
21865 Copley Dr., Diamond Bar, CA 91765  
www.aqmd.gov

### Direct Deposit Authorization

**STEP 1: Please check all the appropriate boxes**

- |  |  |
|--|--|
| <input type="checkbox"/> Individual (Employee, Governing Board Member) | <input type="checkbox"/> New Request           |
| <input type="checkbox"/> Vendor/Contractor                             | <input type="checkbox"/> Cancel Direct Deposit |
| <input type="checkbox"/> Changed Information                           |  |

**STEP 2: Payee Information**

Last Name		First Name		Middle Initial	Title
Vendor/Contractor Business Name (if applicable)					
Address				Apartment or P.O. Box Number	
City		State	Zip	Country	
Taxpayer ID Number		Telephone Number		Email Address	

**Authorization**

1. I authorize South Coast Air Quality Management District (AQMD) to direct deposit funds to my account in the financial institution as indicated below. I understand that the authorization may be rejected or discontinued by AQMD at any time. If any of the above information changes, I will promptly complete a new authorization agreement. If the direct deposit is not stopped before closing an account, funds payable to me will be returned to AQMD for distribution. This will delay my payment.
2. This authorization remains in effect until AQMD receives written notification of changes or cancellation from you.
3. I hereby release and hold harmless AQMD for any claims or liability to pay for any losses or costs related to insufficient fund transactions that result from failure within the Automated Clearing House network to correctly and timely deposit monies into my account.

**STEP 3:**

You must verify that your bank is a member of an Automated Clearing House (ACH). Failure to do so could delay the processing of your payment. You must attach a voided check or have your bank complete the bank information and the account holder must sign below.

**To be Completed by your Bank**

<b>Staple Voided Check Here</b>	Name of Bank/Institution			
	Account Holder Name(s)			
	<input type="checkbox"/> Saving <input type="checkbox"/> Checking	Account Number		Routing Number
	Bank Representative Printed Name		Bank Representative Signature	Date
	ACCOUNT HOLDER SIGNATURE:			Date

For AQMD Use Only

Input By \_\_\_\_\_

Date \_\_\_\_\_